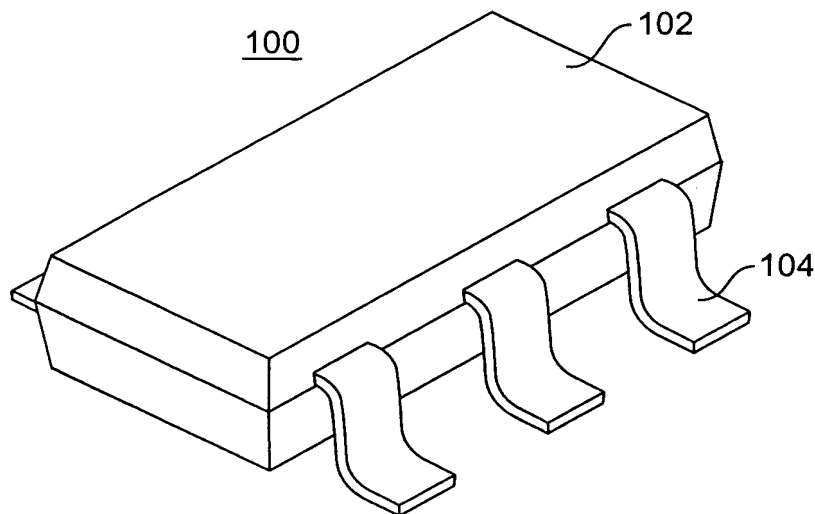


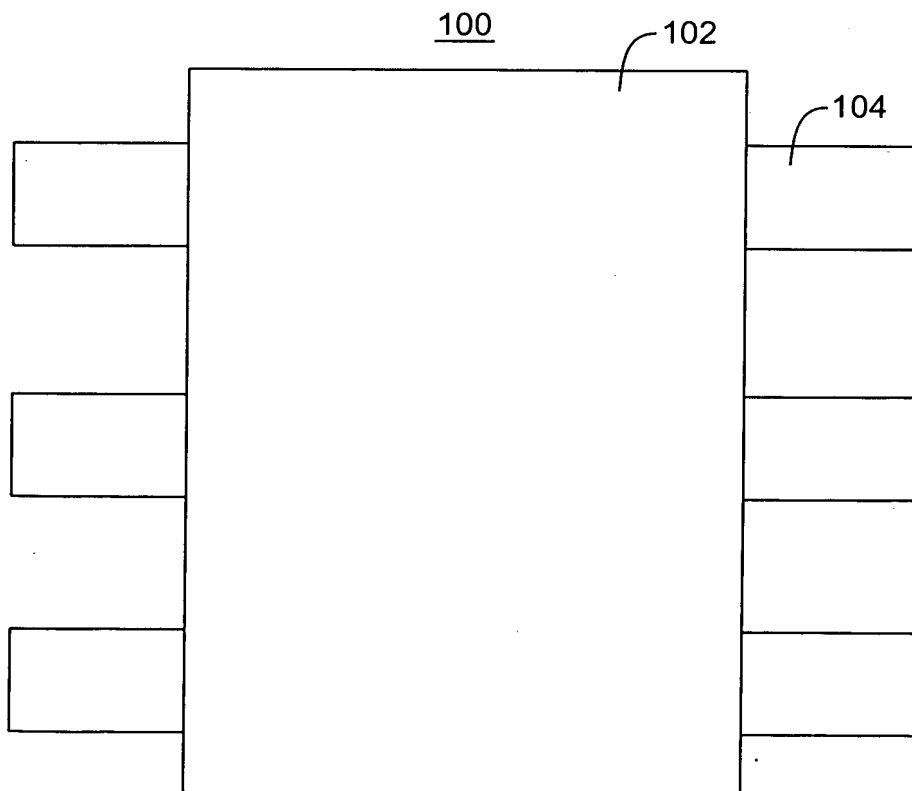


Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/453,478  
Attorney Docket: 026964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 1 of 45

1 / 45



(PRIOR ART)  
FIG. 1A

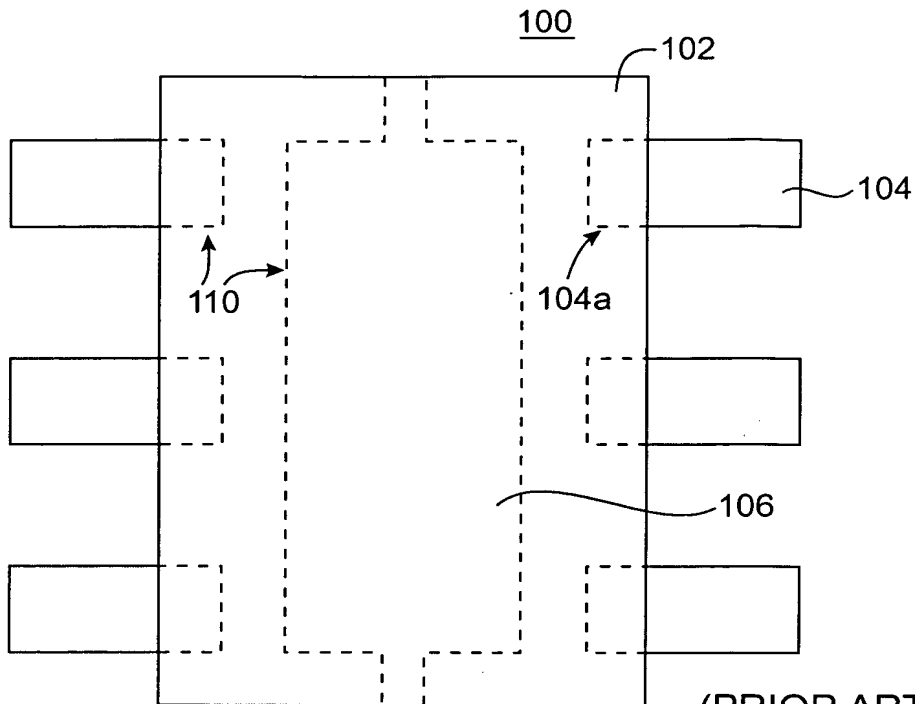


(PRIOR ART)  
FIG. 1B

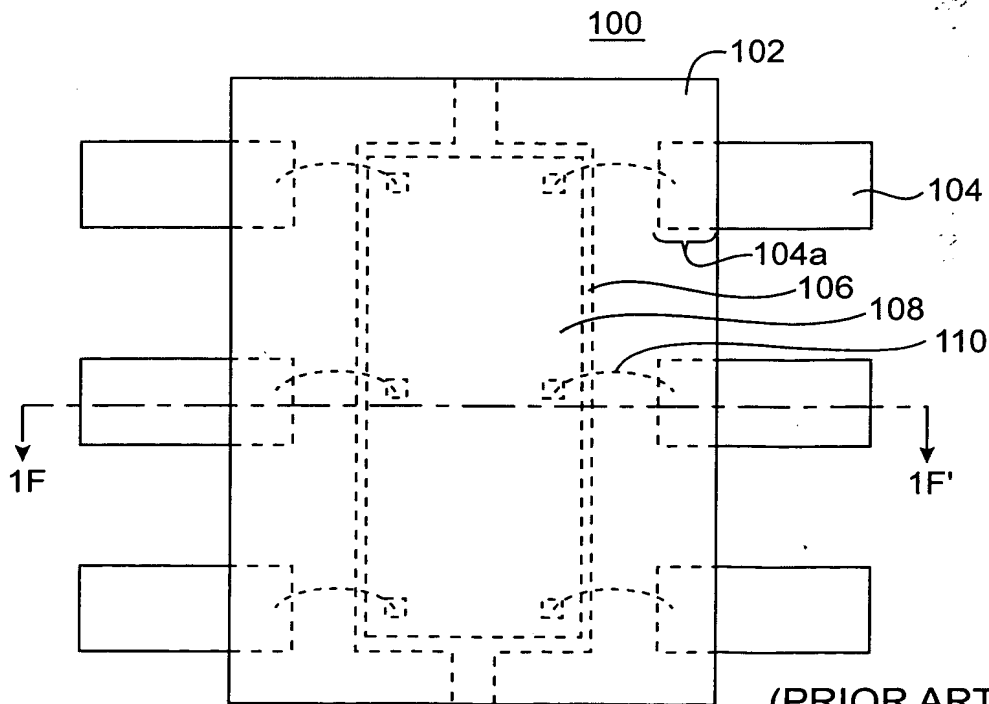


Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 2 of 45

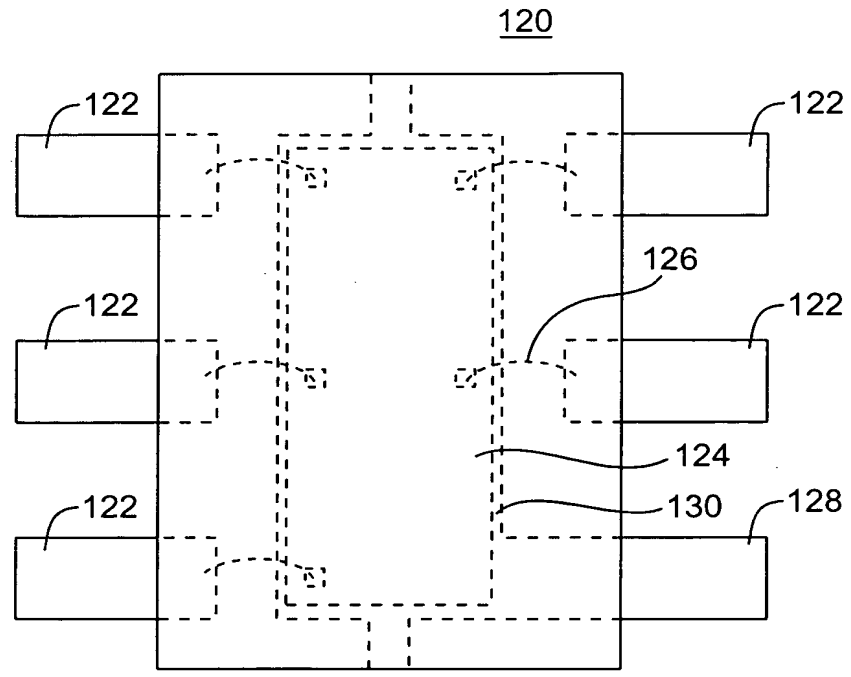
2 / 45



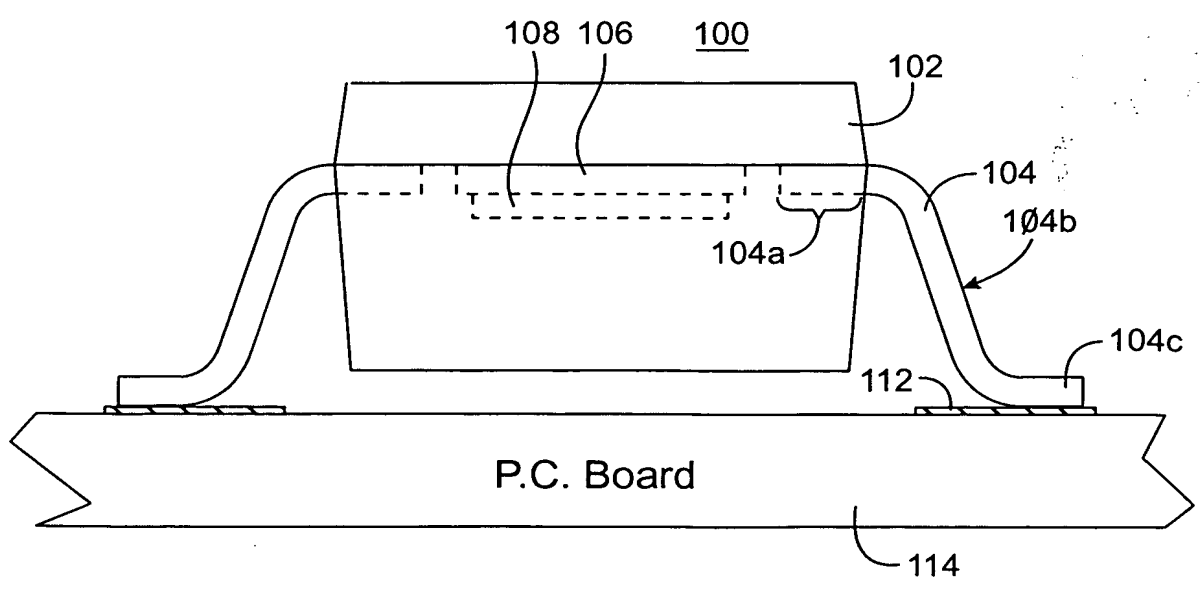
(PRIOR ART)  
FIG. 1C



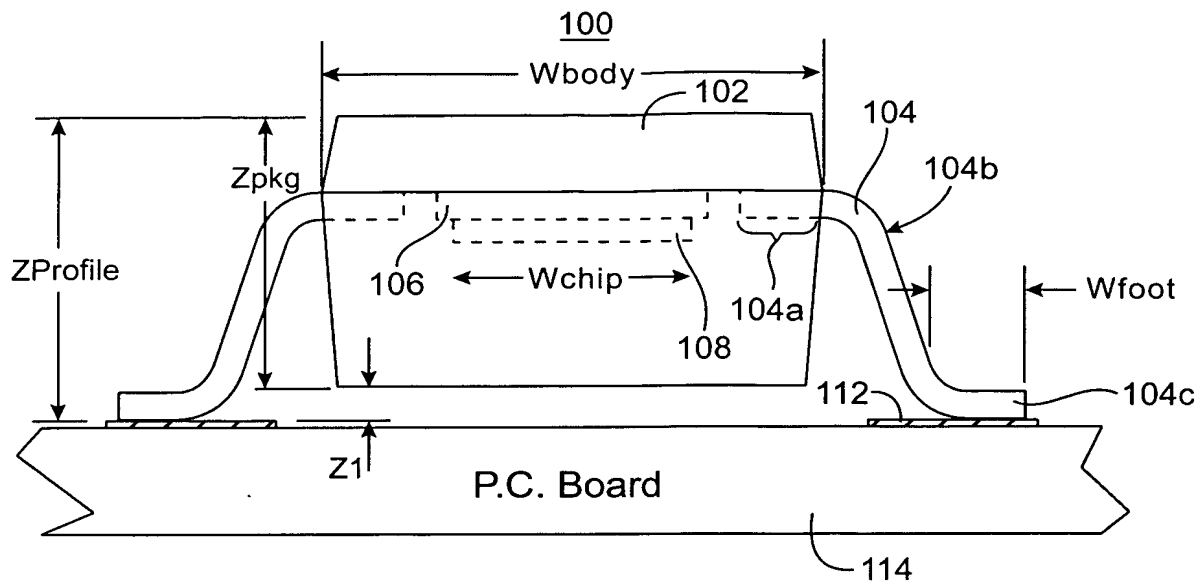
(PRIOR ART)  
FIG. 1D



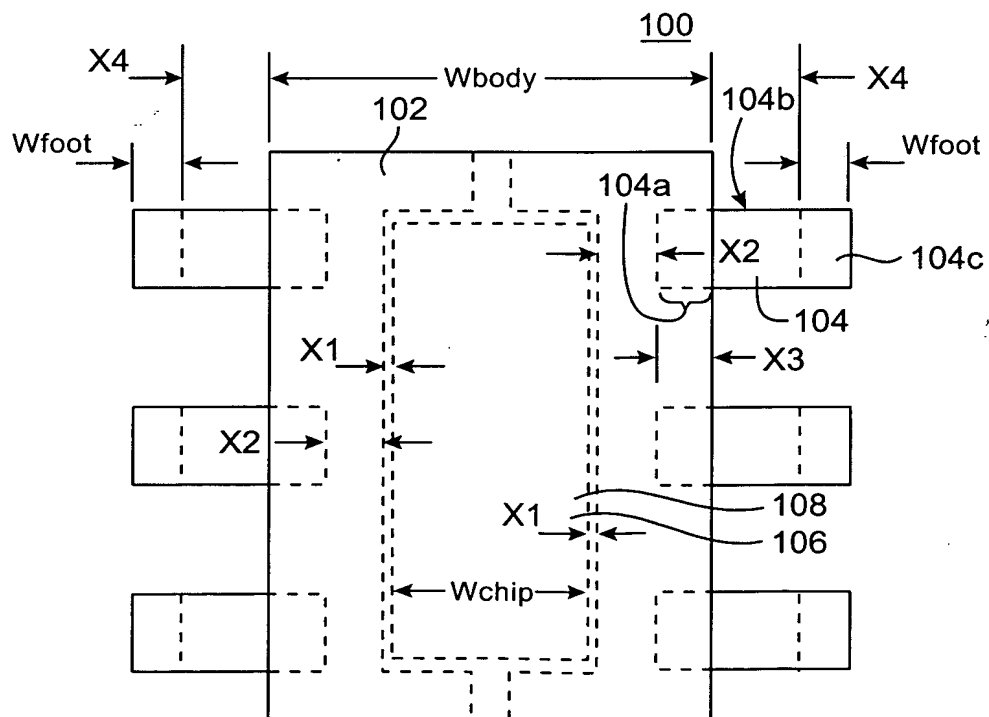
(PRIOR ART)  
FIG. 1E



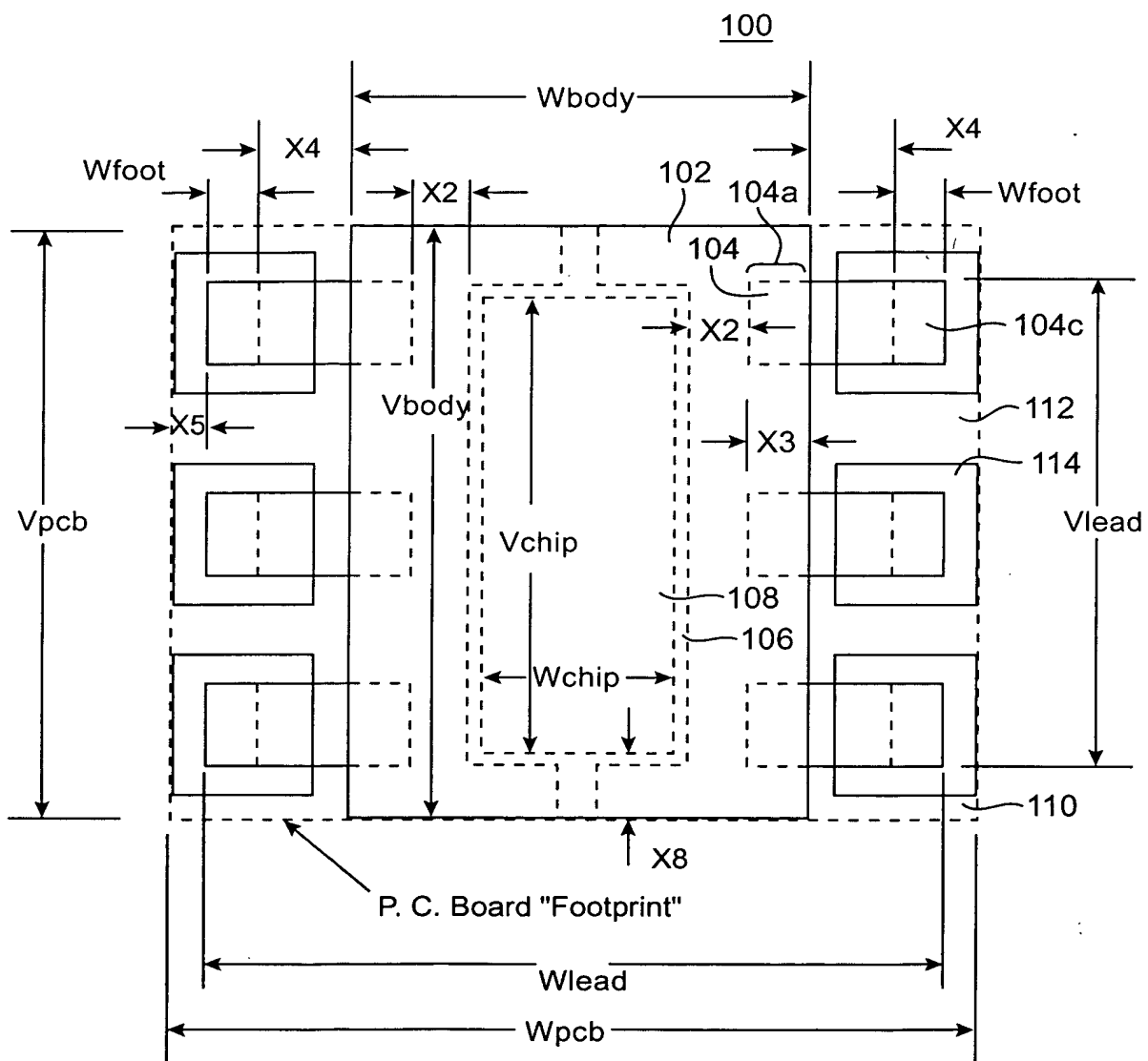
(PRIOR ART)  
FIG. 1F



(PRIOR ART)  
FIG. 2A



(PRIOR ART)  
FIG. 2B

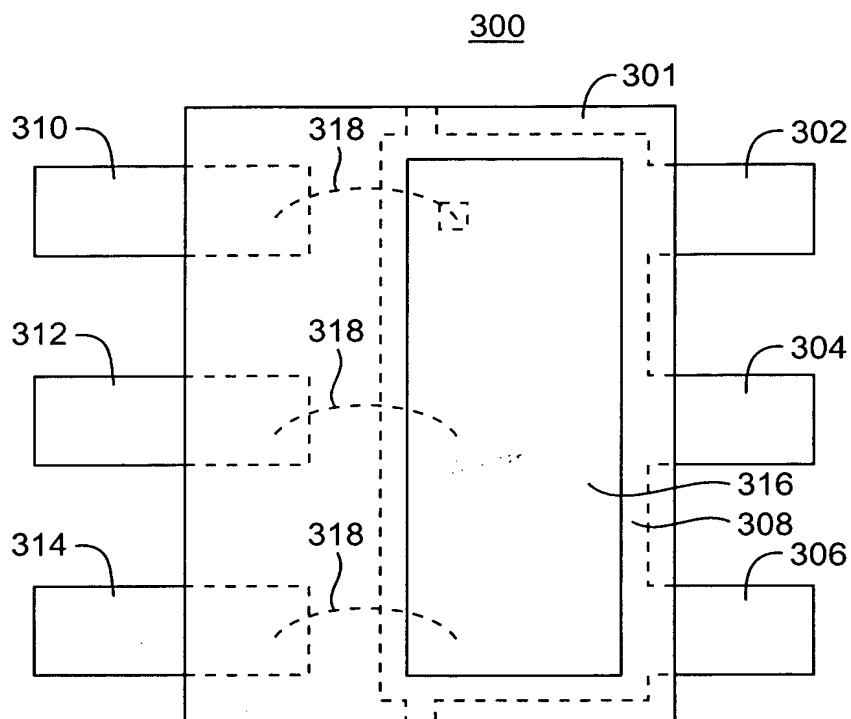


(PRIOR ART)  
 FIG. 2C



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 6 of 45

6 / 45

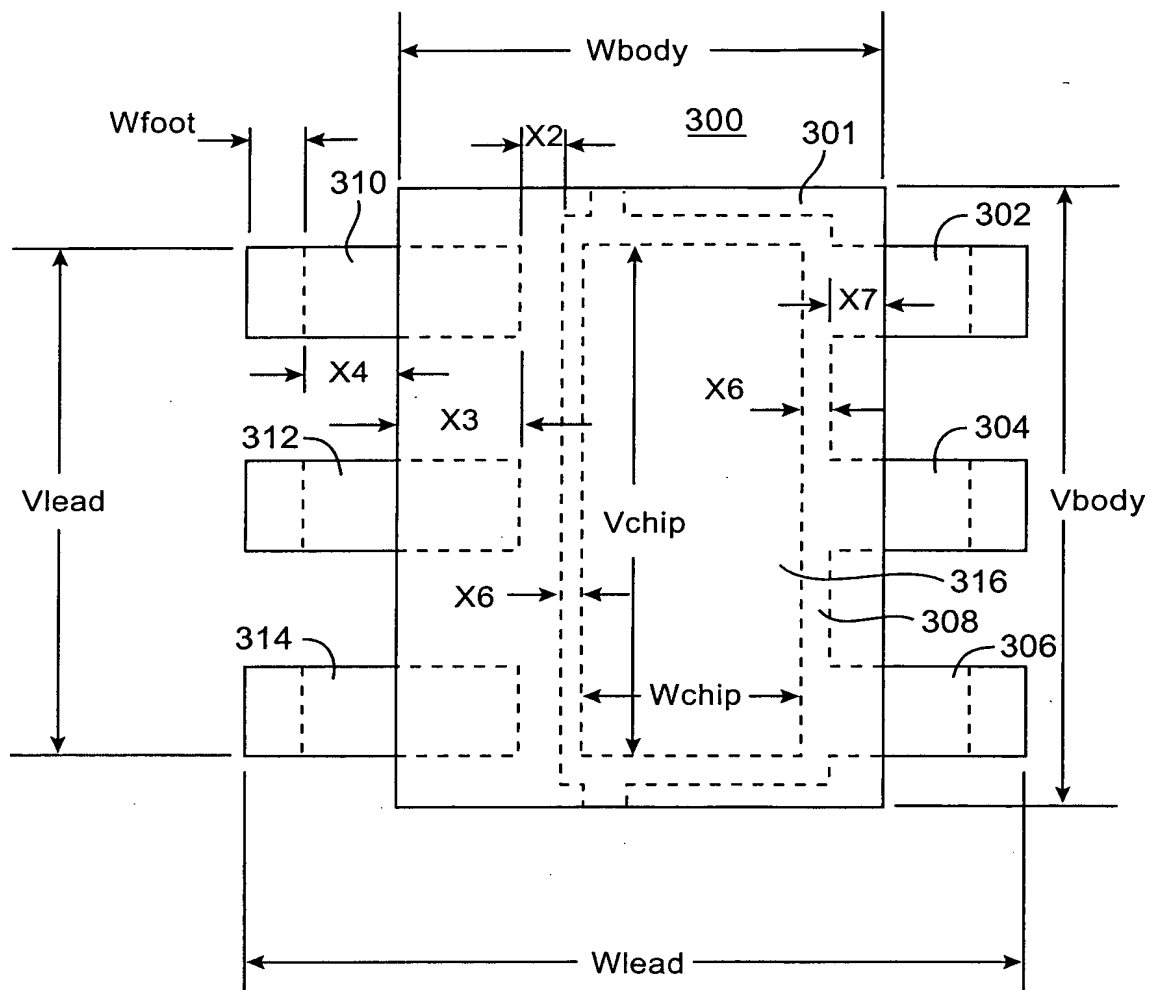


(PRIOR ART)  
FIG. 3A



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 7 of 45

7 / 45

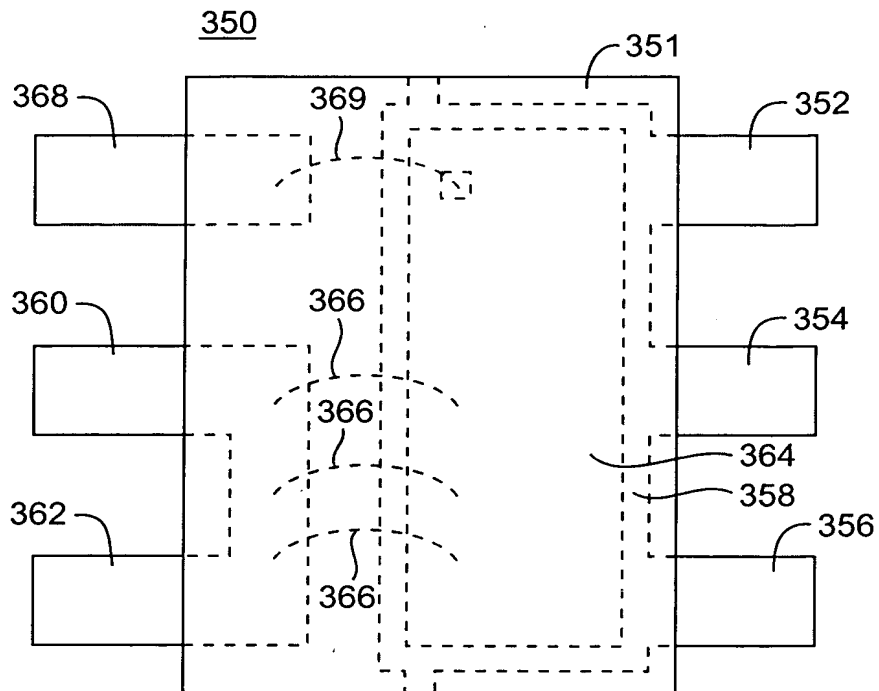


(PRIOR ART)  
FIG. 3B



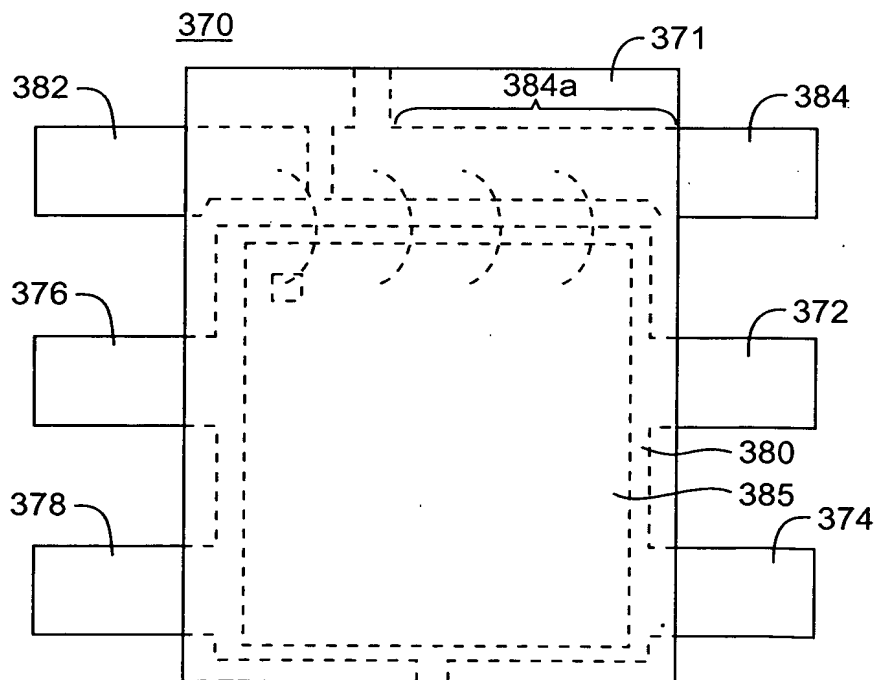
Title: Improved Surface Mount  
Package  
Inventors: James Hårnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 8 of 45

8 / 45



(PRIOR ART)

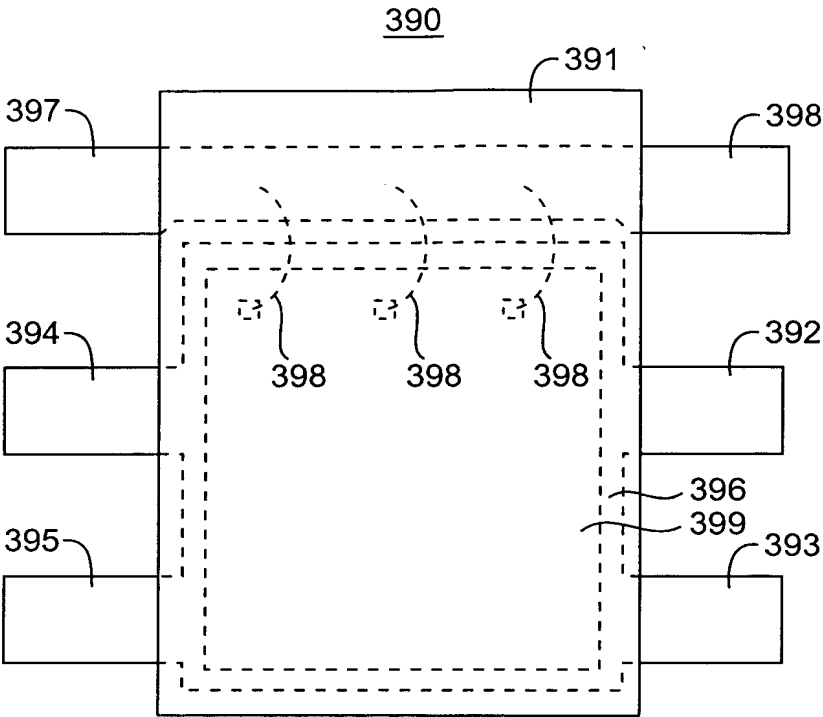
FIG. 3C



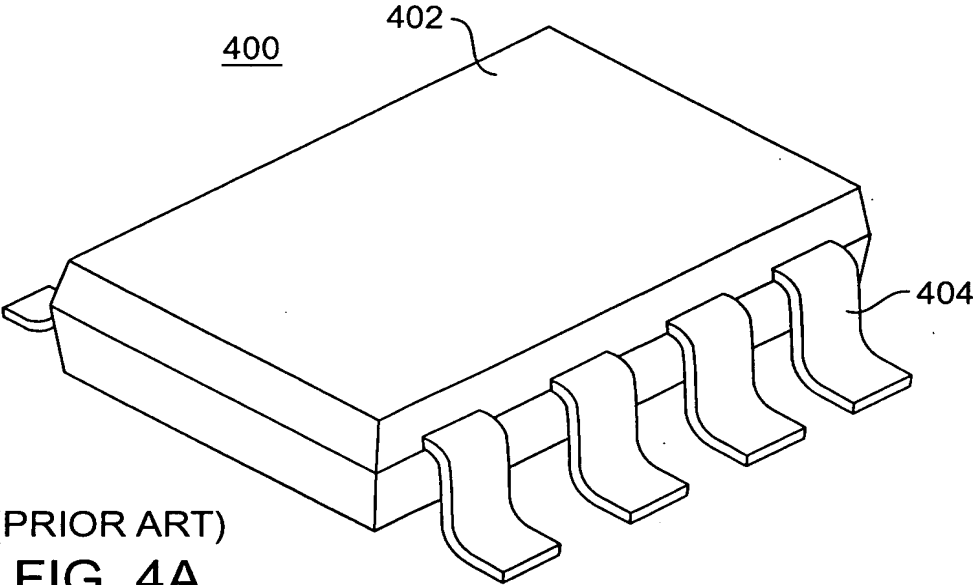
(PRIOR ART)

FIG. 3D





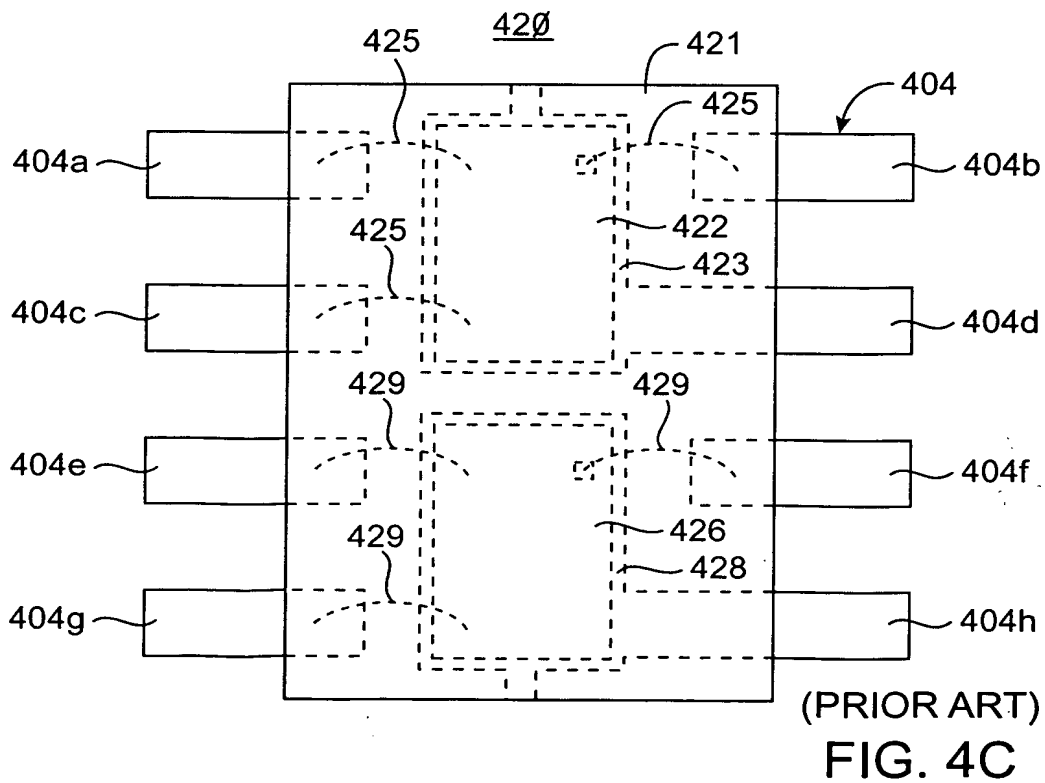
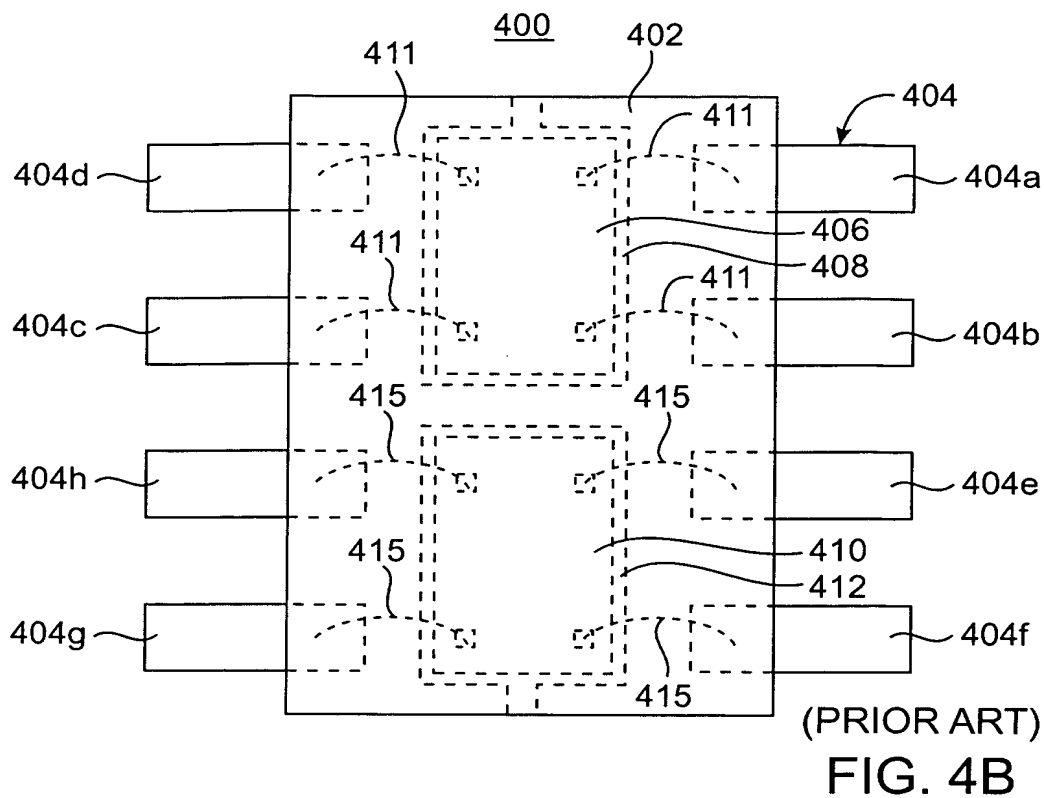
(PRIOR ART)  
FIG. 3E

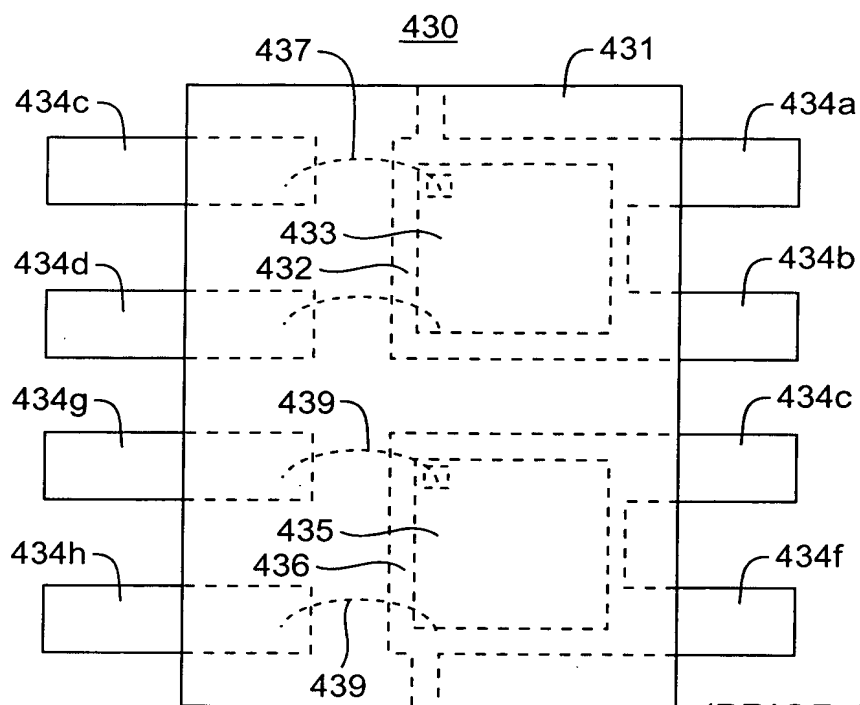


(PRIOR ART)  
FIG. 4A

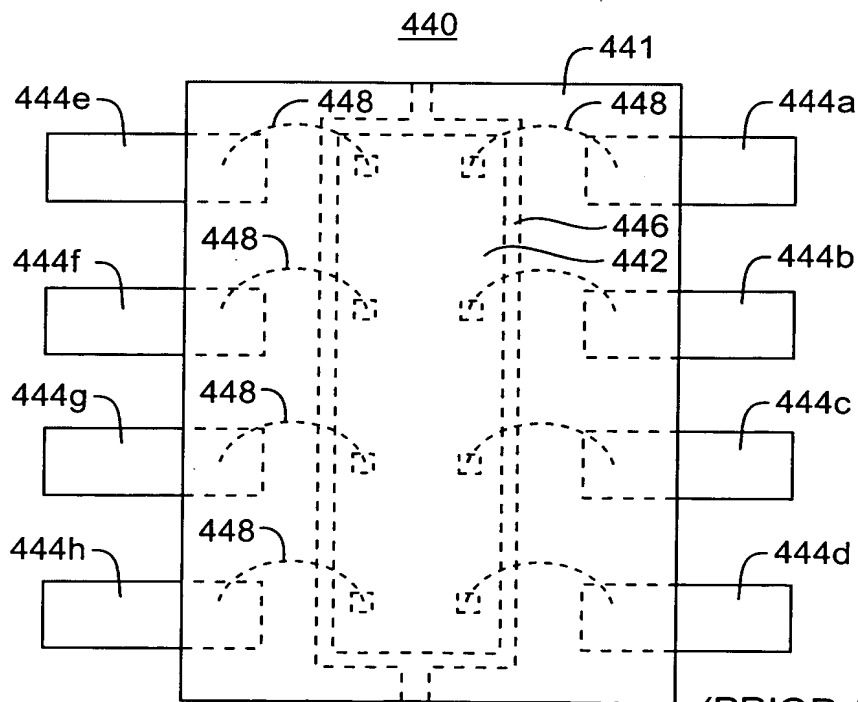


10 / 45





(PRIOR ART)  
FIG. 4D



(PRIOR ART)  
FIG. 4E



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 12 of 45

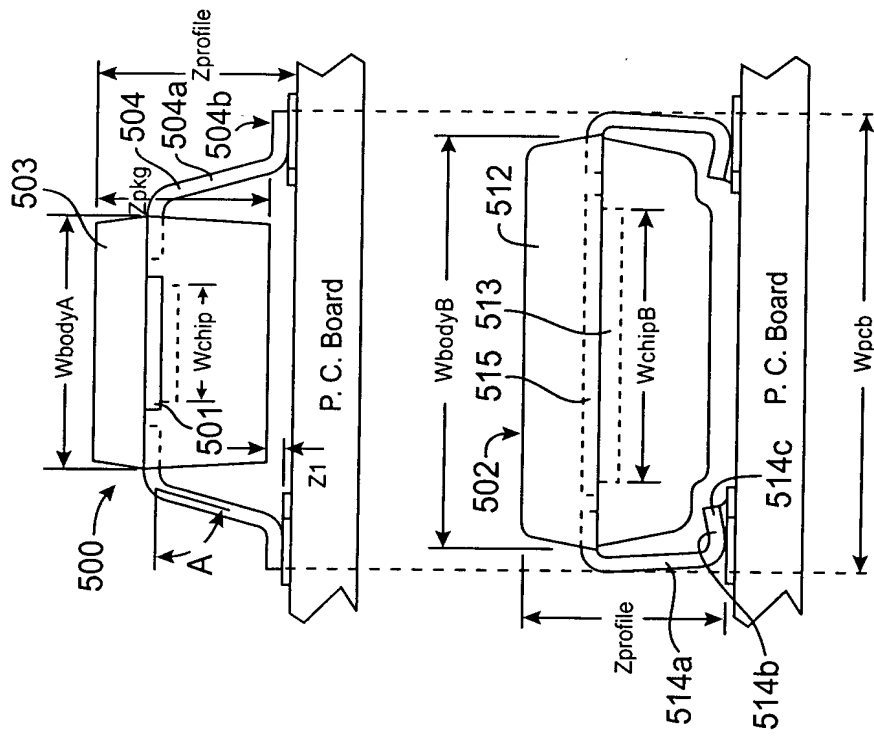
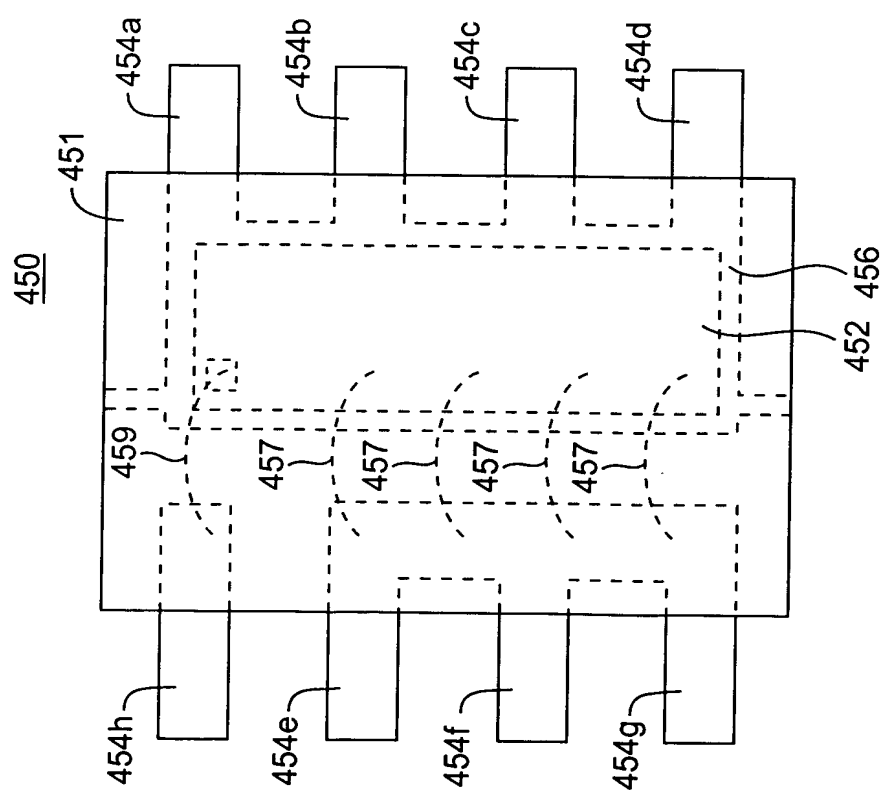


FIG. 5A



(PRIOR ART)  
FIG. 4F

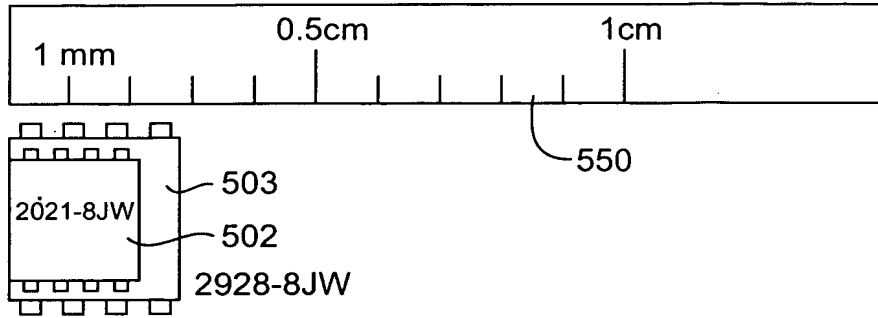


FIG. 5B

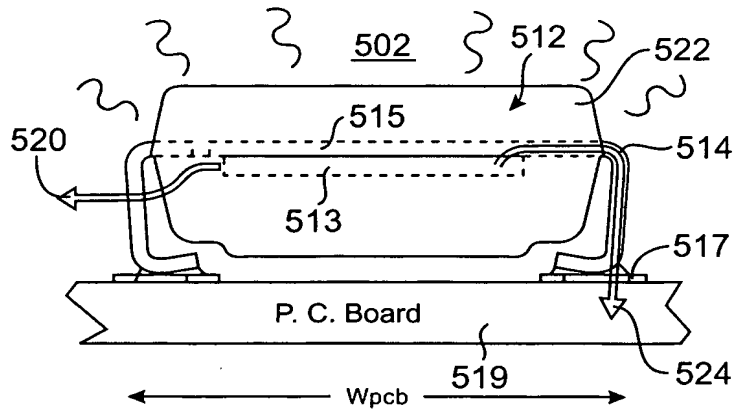


FIG. 5C



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 14 of 45

14 / 45

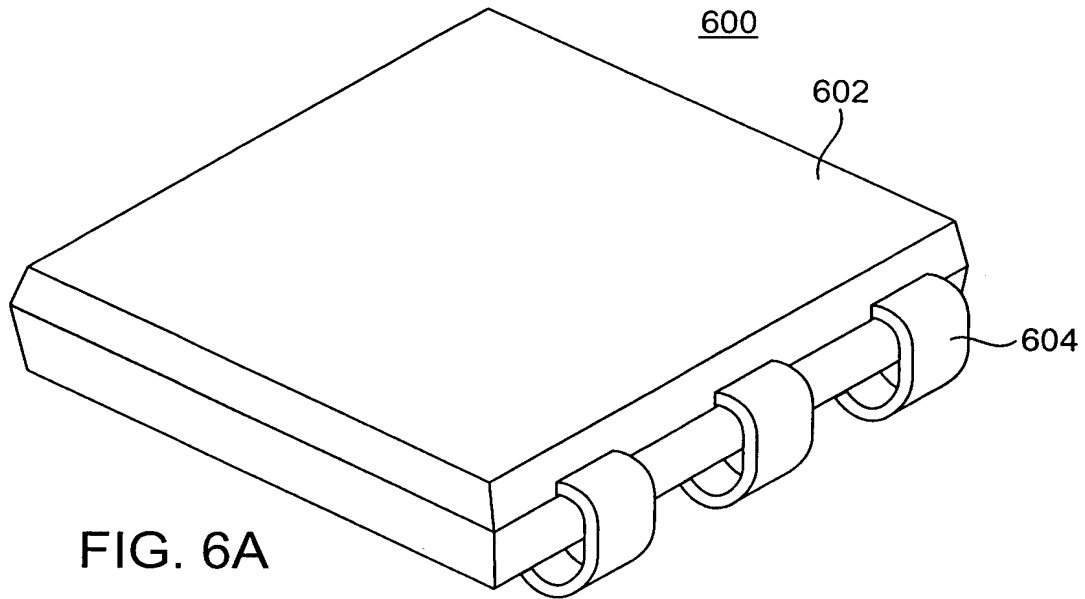


FIG. 6A

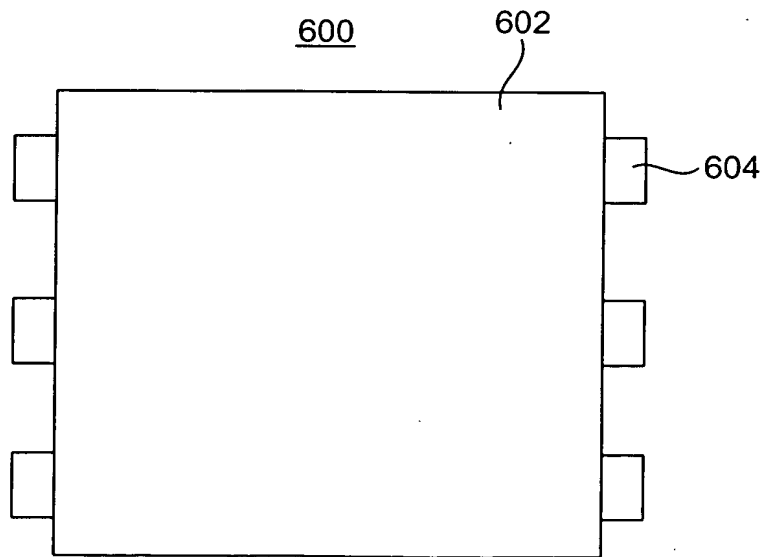


FIG. 6B



Title: Improved Surface Mount  
Package: James Harnden et al.  
Inventors: 09/895,478  
Application No.: 020964-000210US  
Attorney Docket: June 29, 2001  
Filing Date: Sheet 15 of 45  
Drawing:

15 / 45

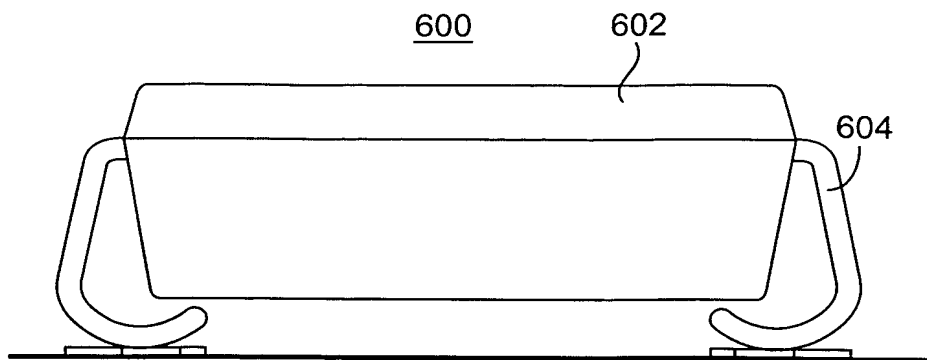


FIG. 6C

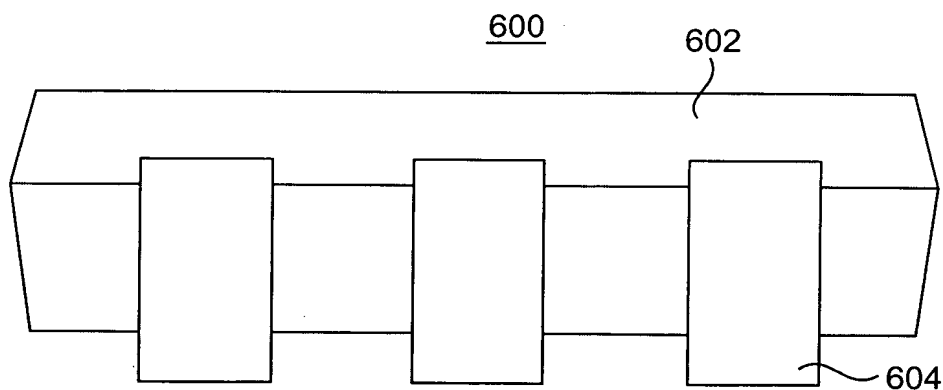


FIG. 6D

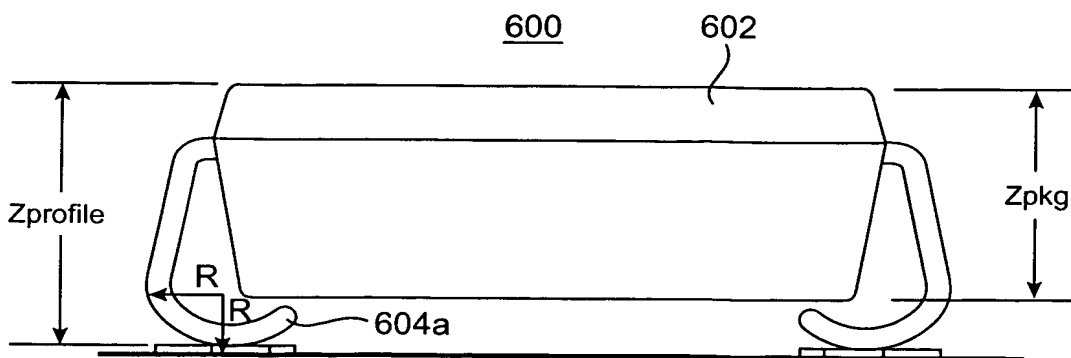
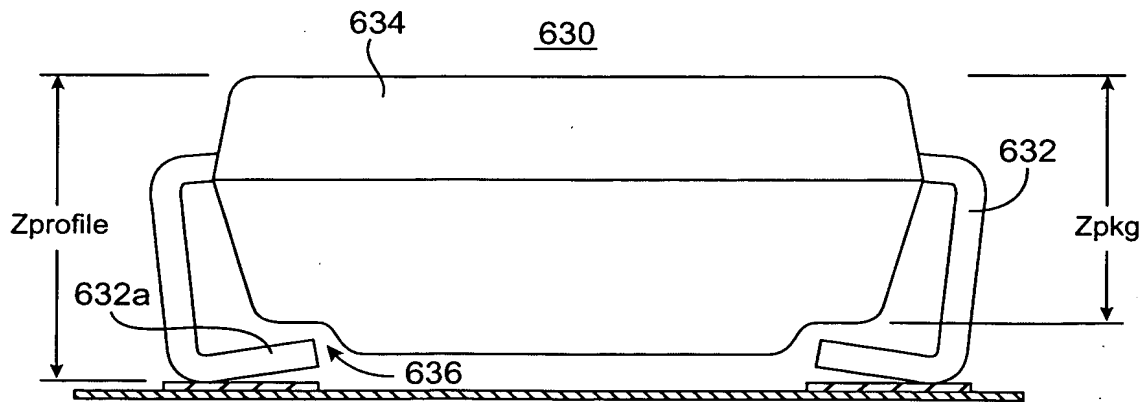
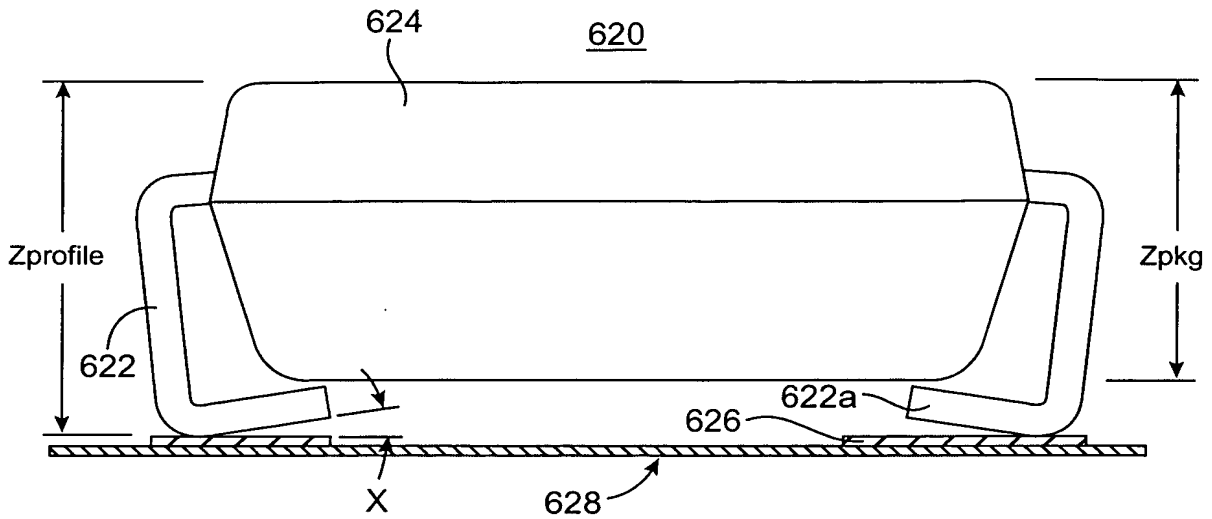


FIG. 6E







Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 17 of 45

17 / 45

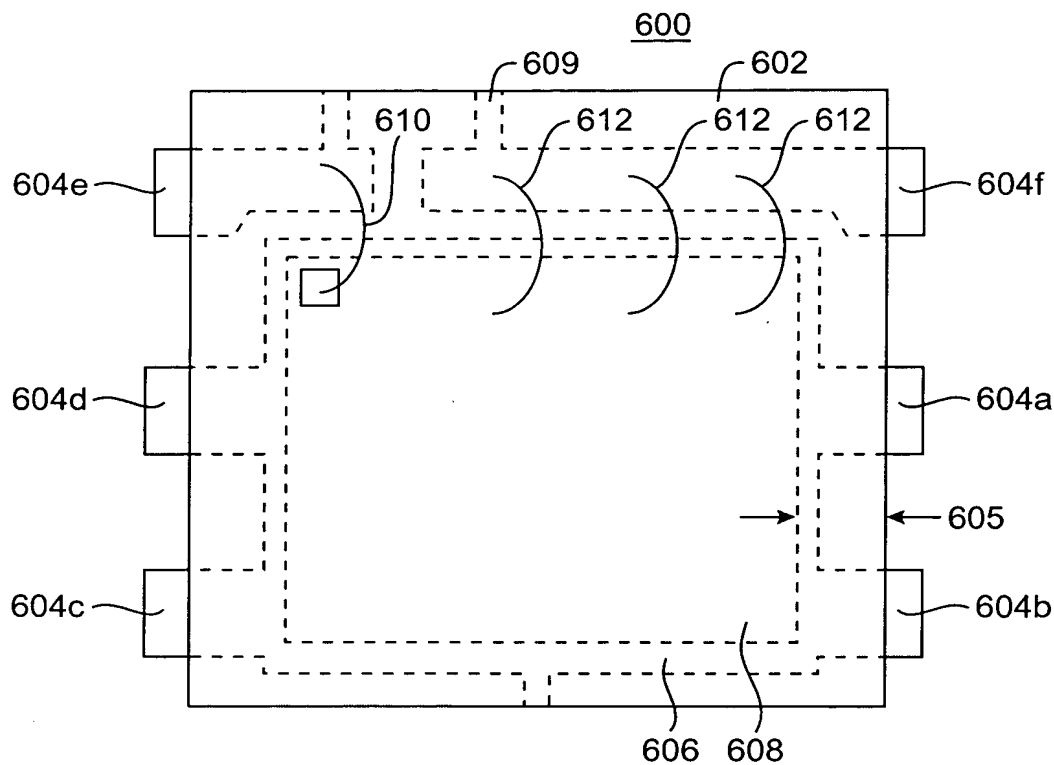


FIG. 6H

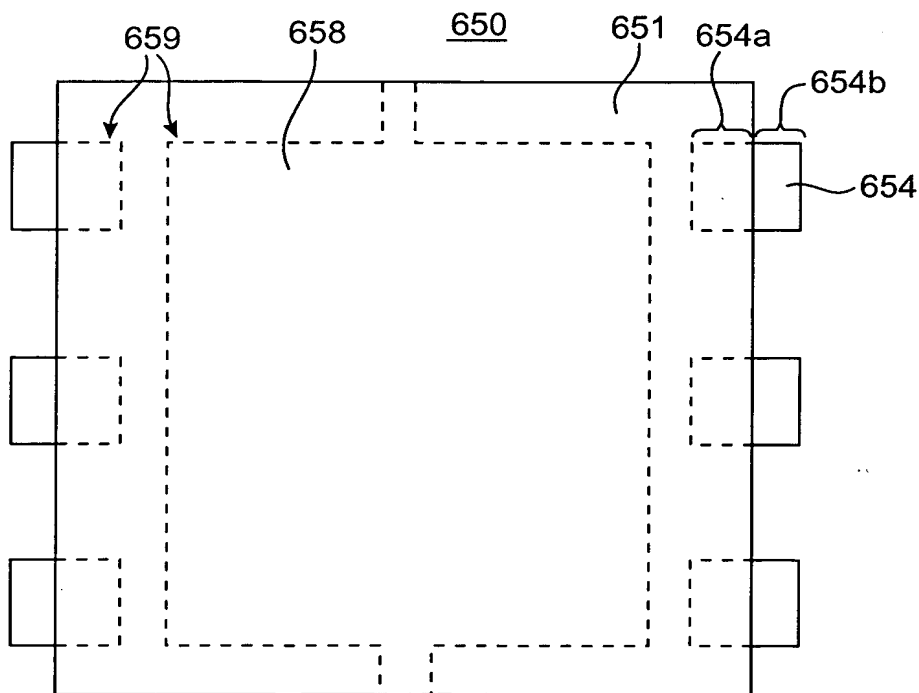


FIG. 6I

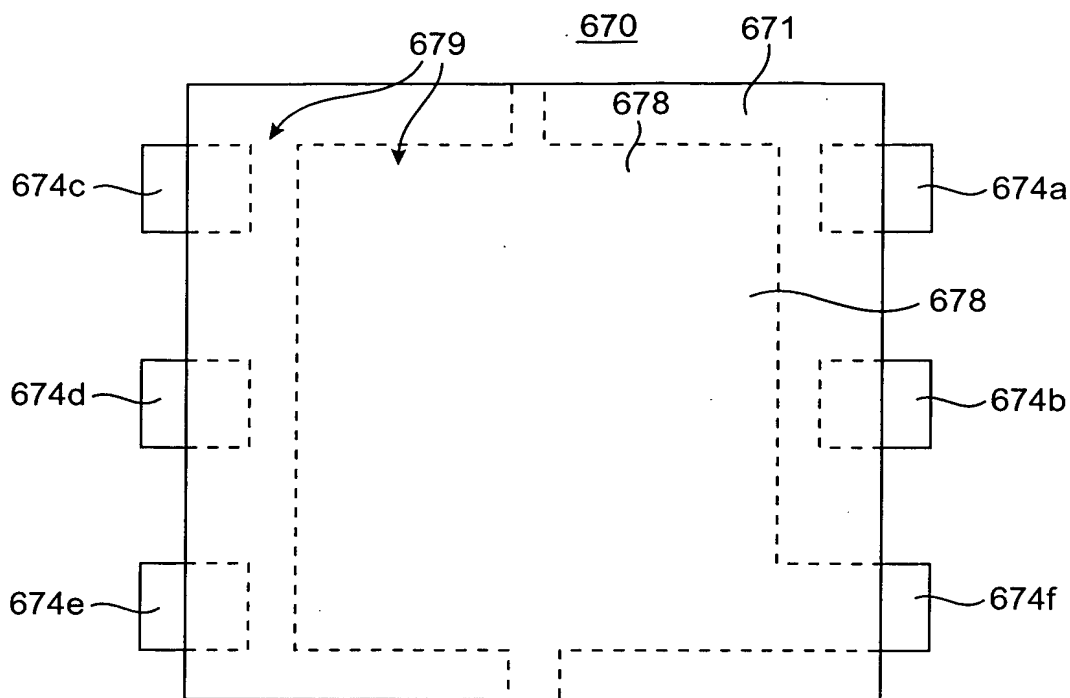
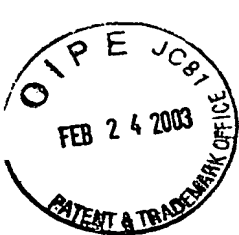


FIG. 6J

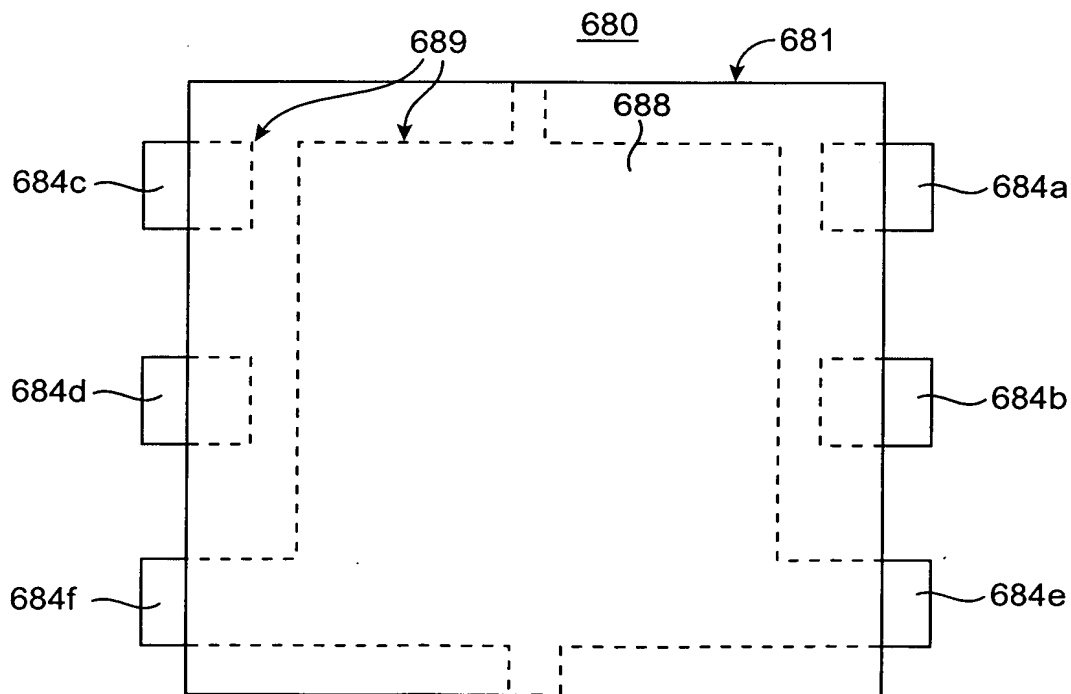


FIG. 6K

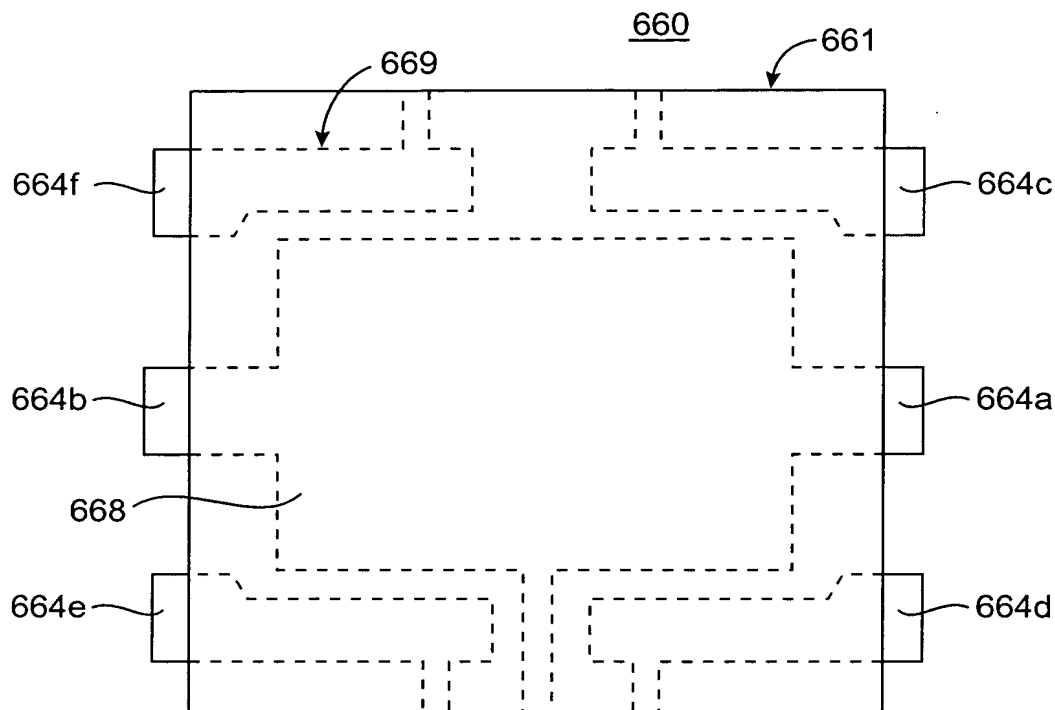
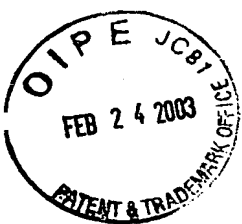


FIG. 6L

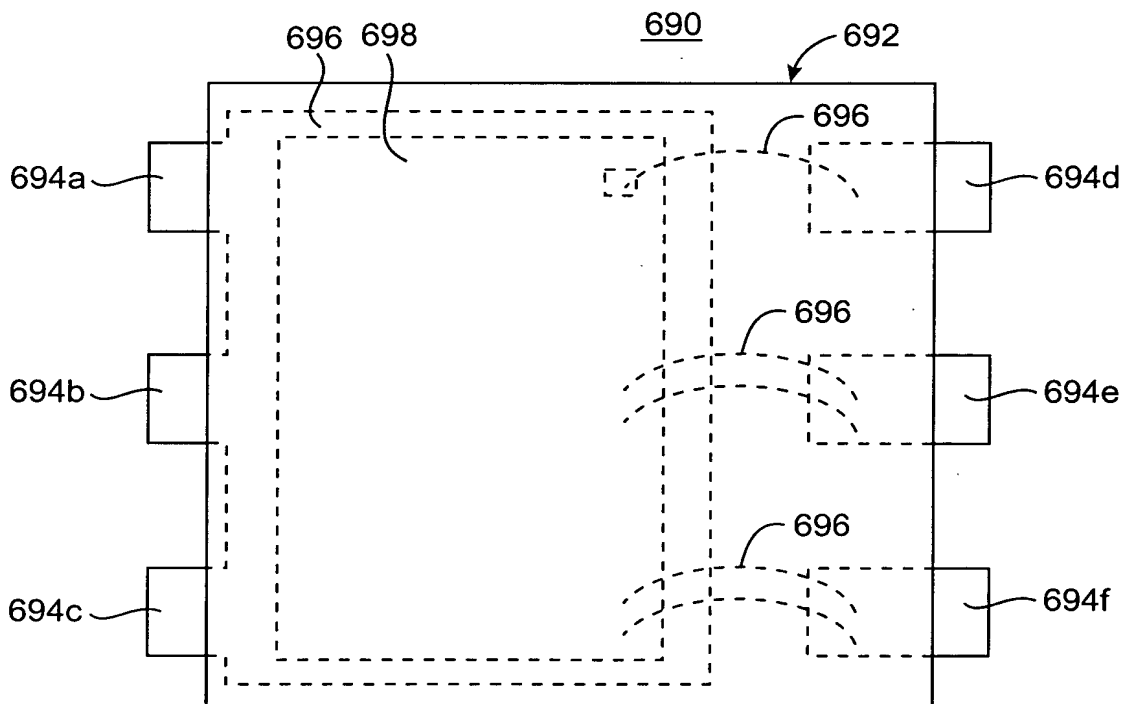


FIG. 6M



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 20 of 45

20 / 45

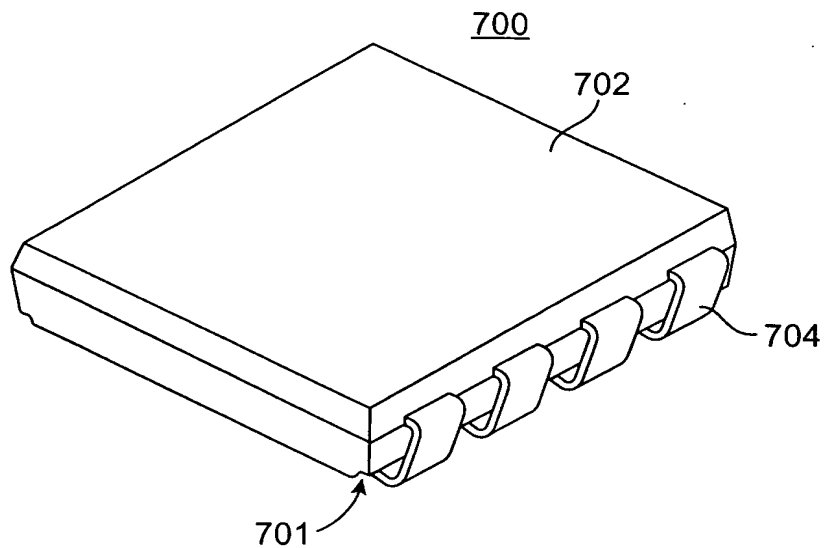


FIG. 7A

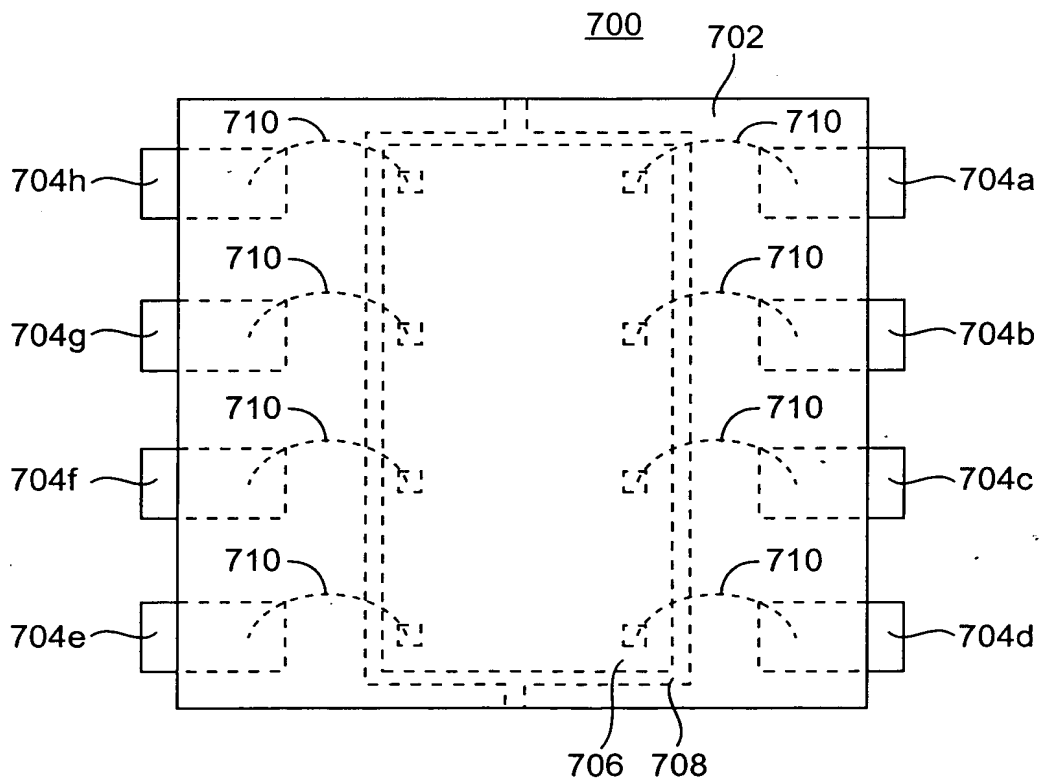


FIG. 7B



21 / 45

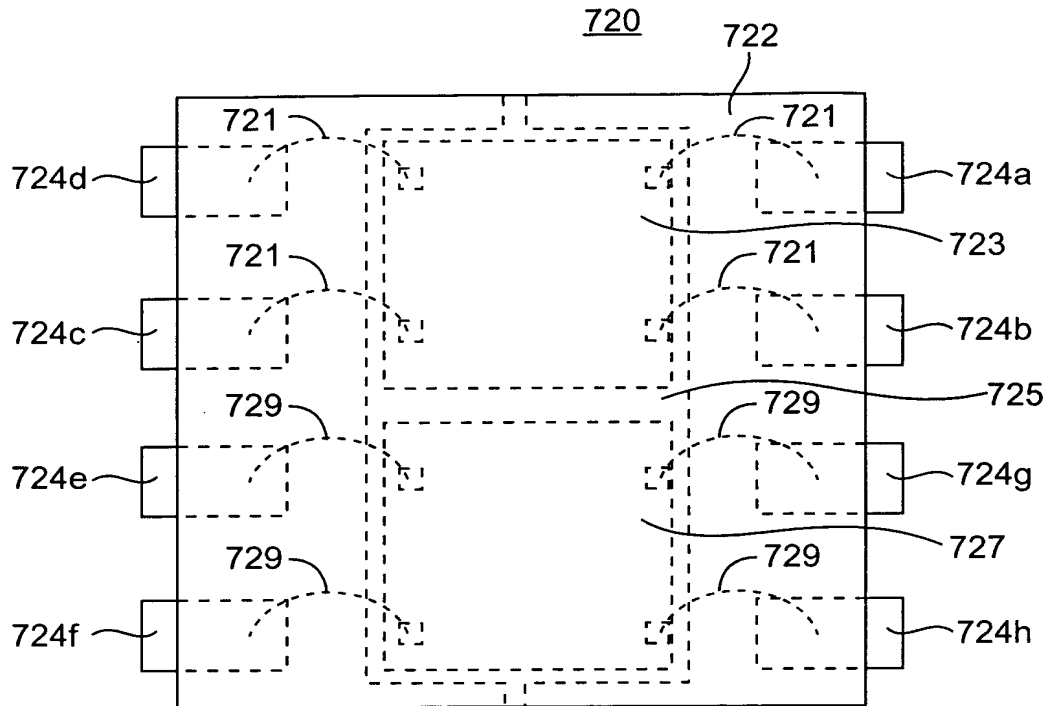


FIG. 7C

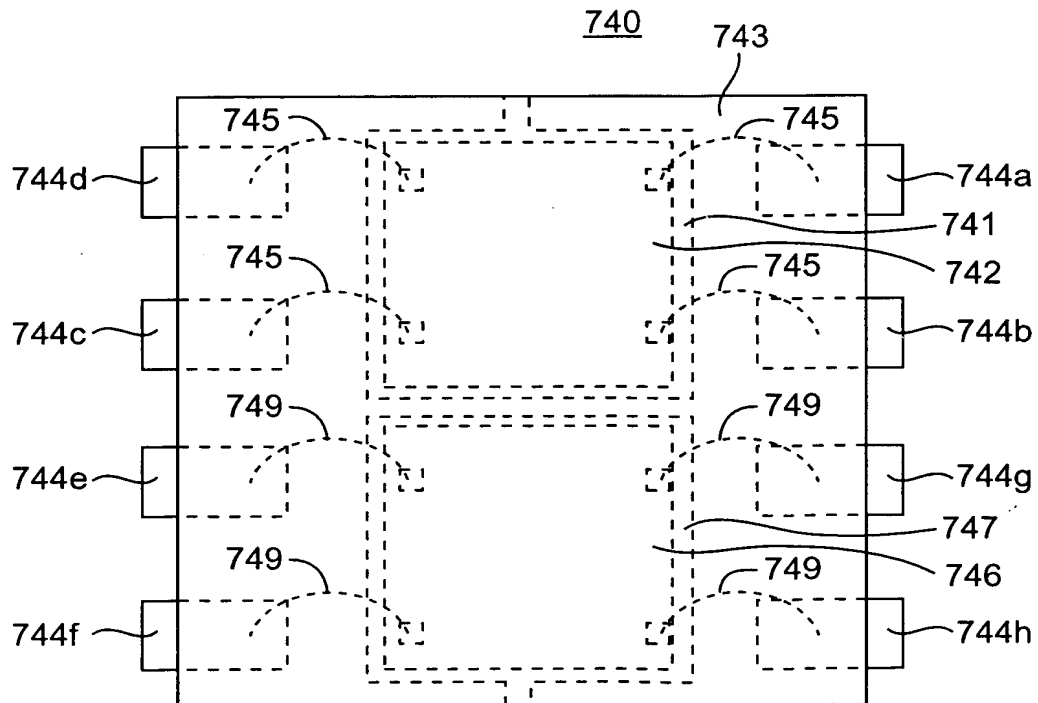


FIG. 7D



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 22 of 45

22 / 45

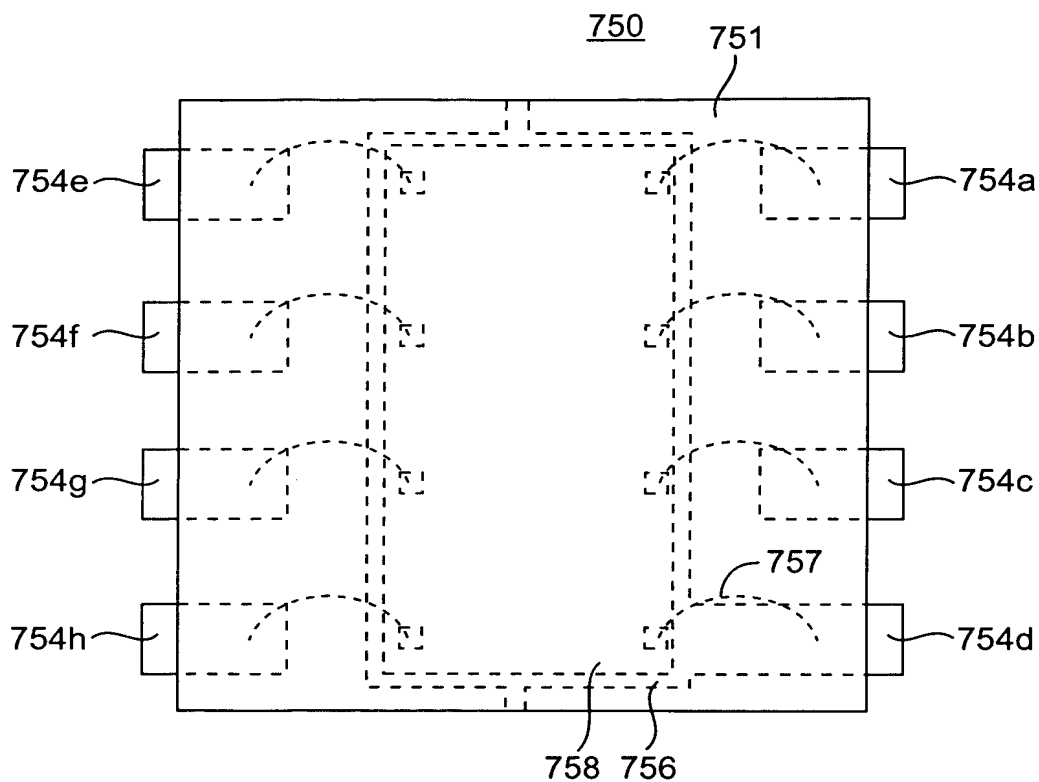


FIG. 7E



23 / 45

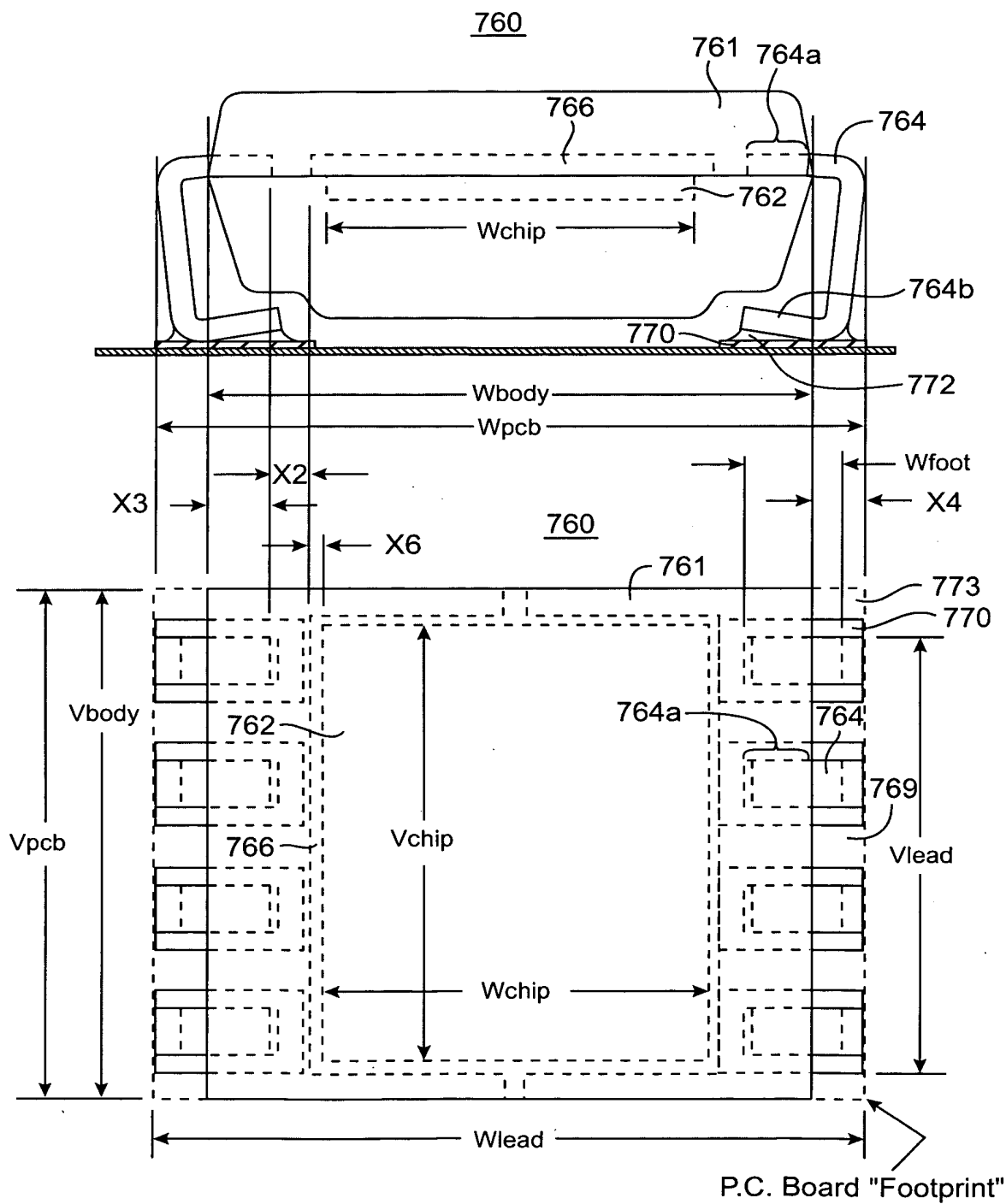


FIG. 7F

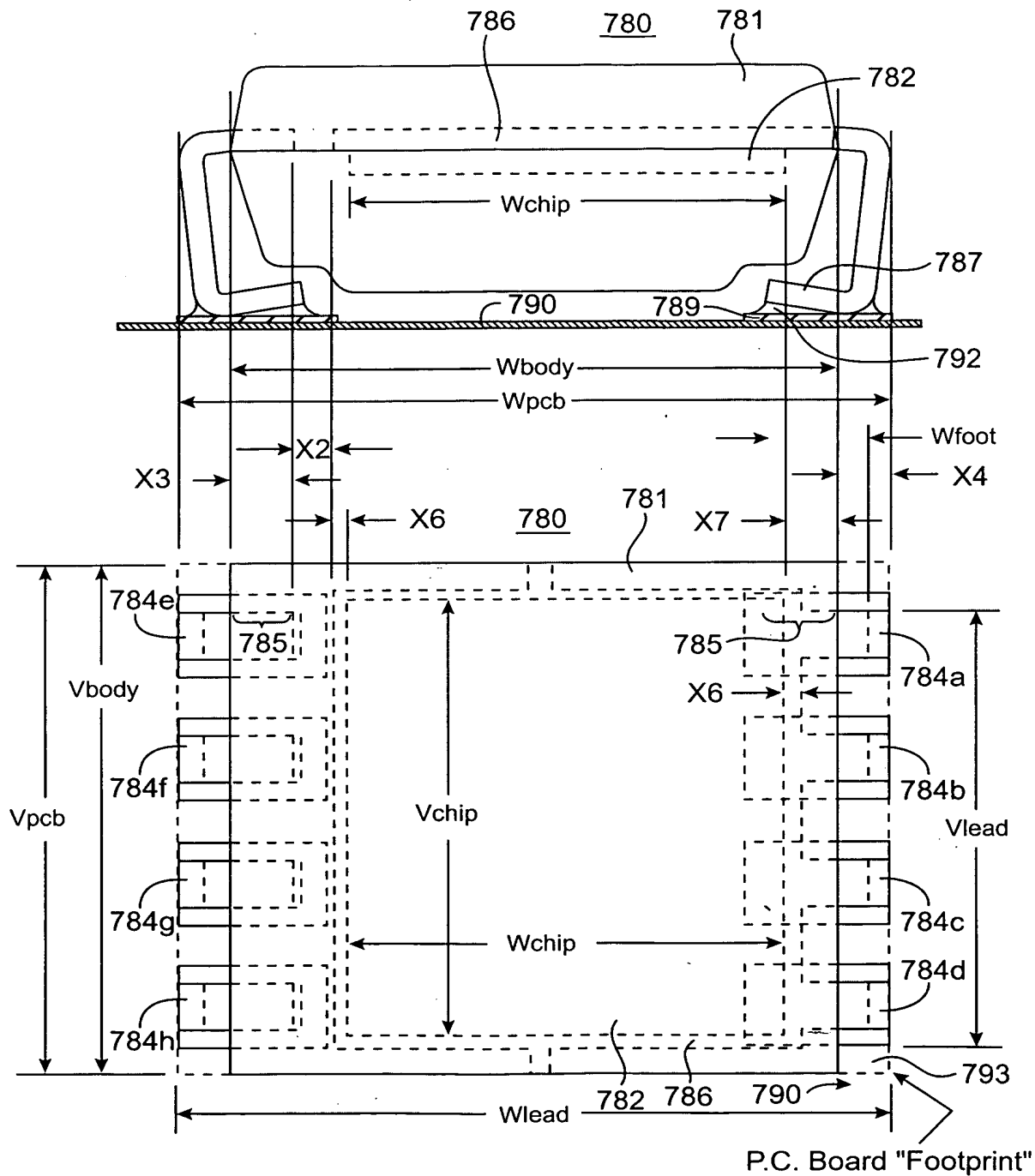
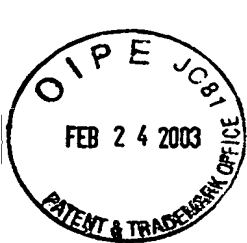


FIG. 7G



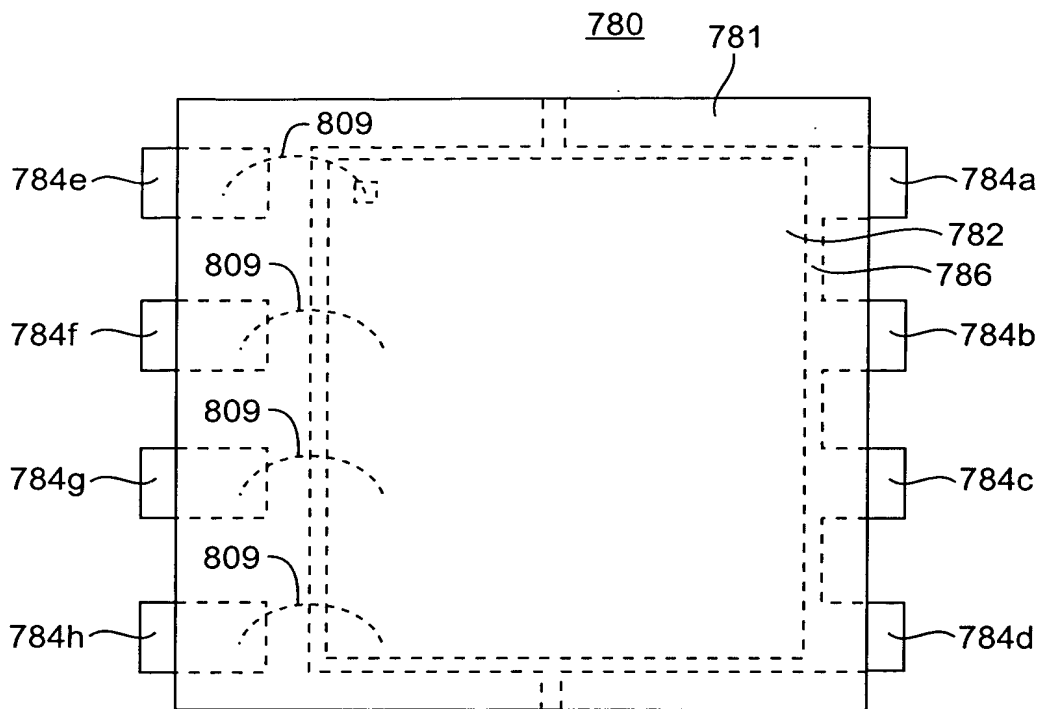


FIG. 8A

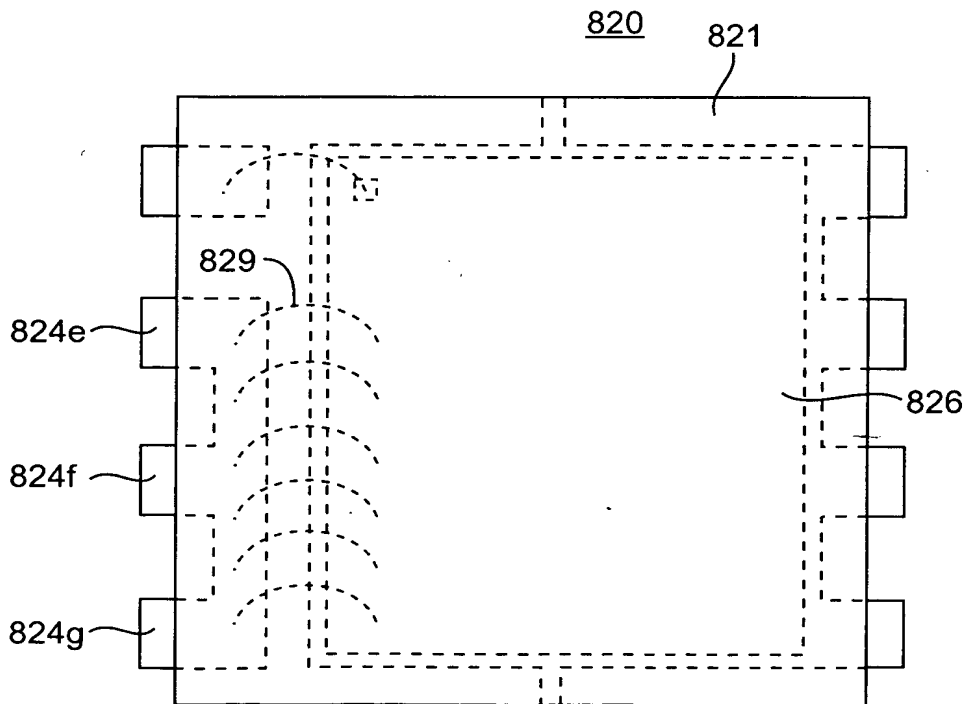


FIG. 8B



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 26 of 45

26 / 45

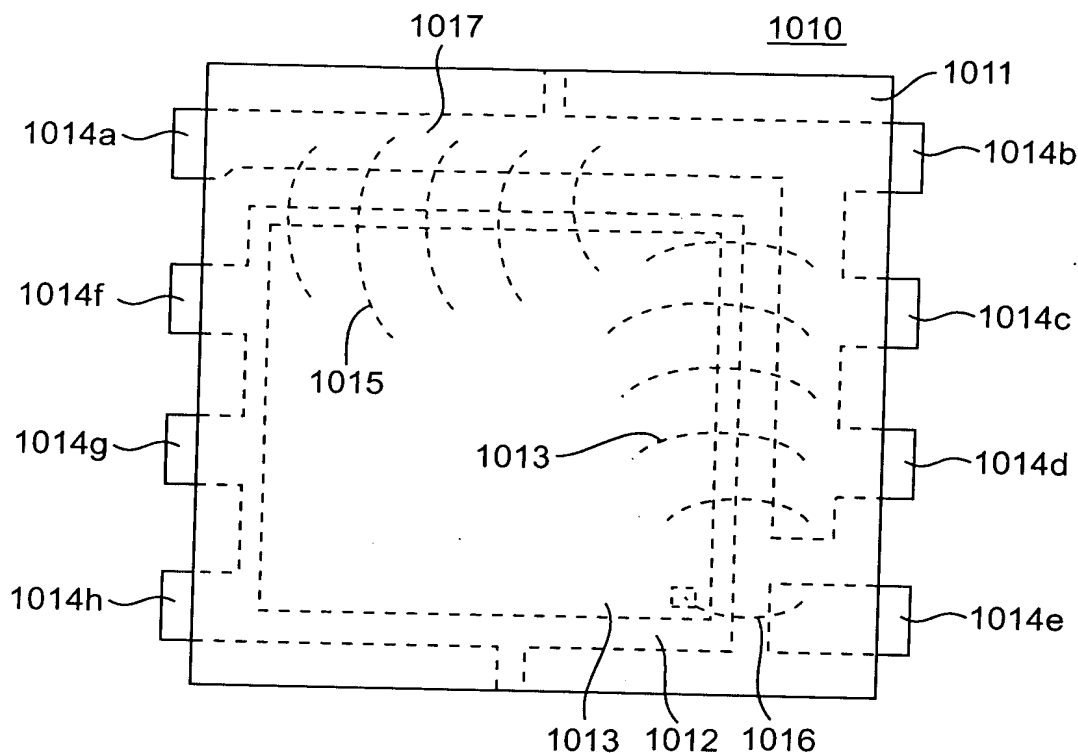


FIG. 8C

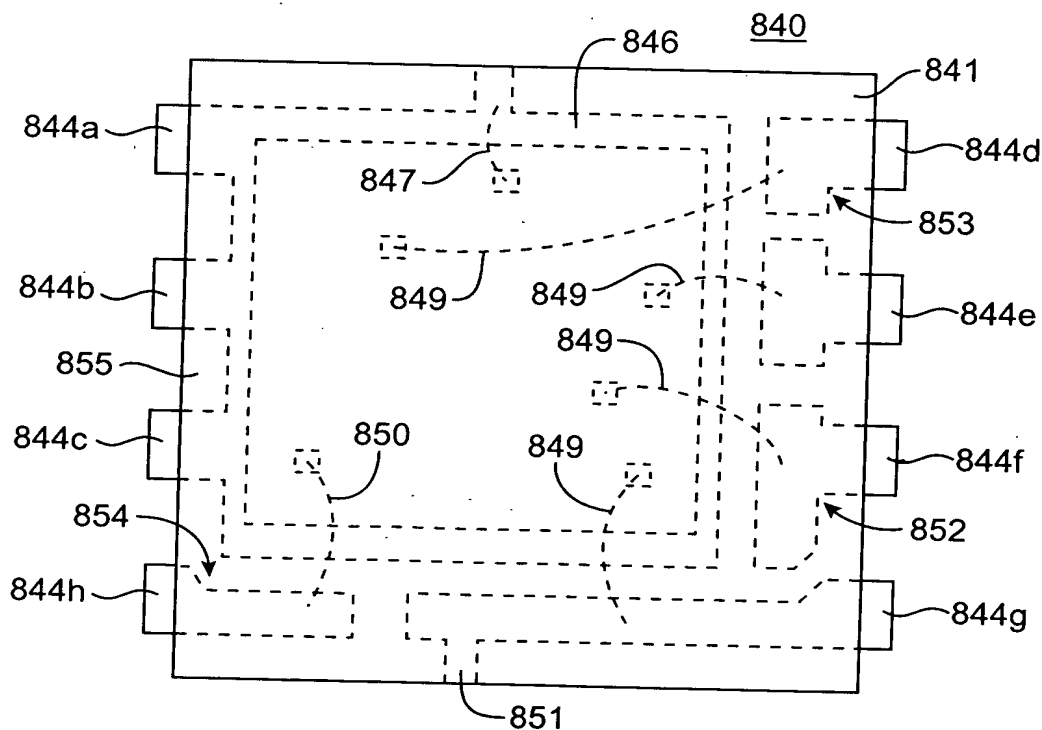
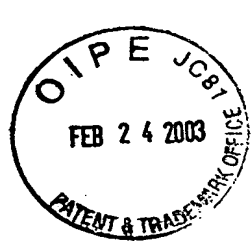


FIG. 8D





28 / 45

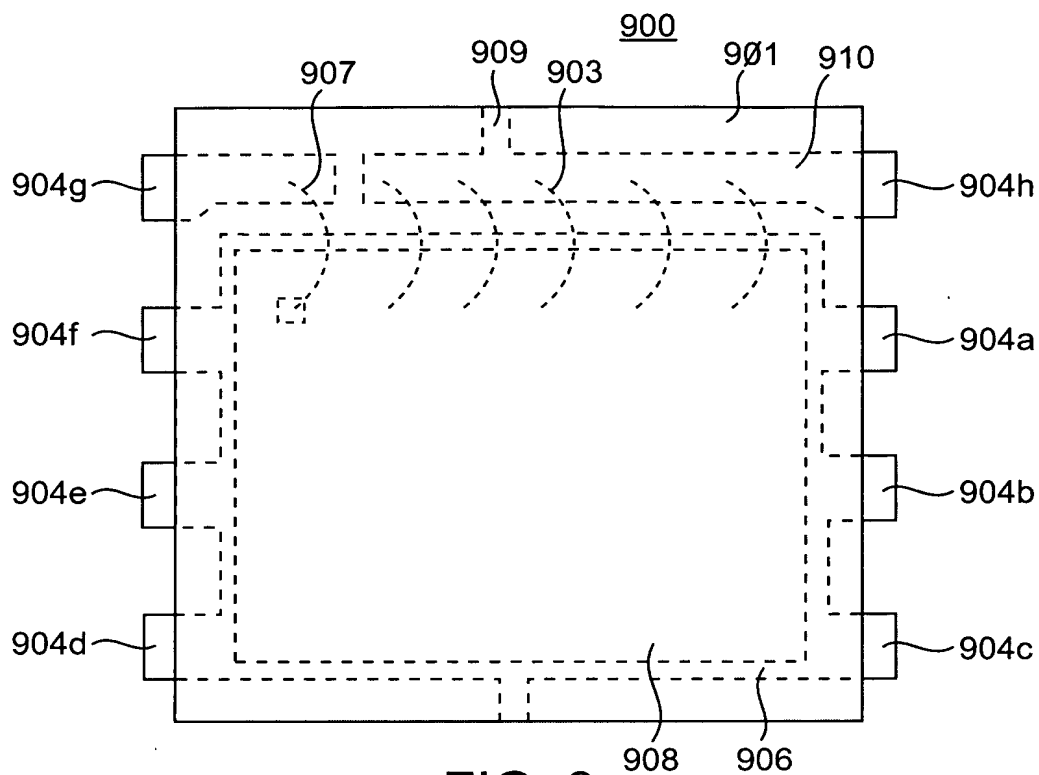


FIG. 9

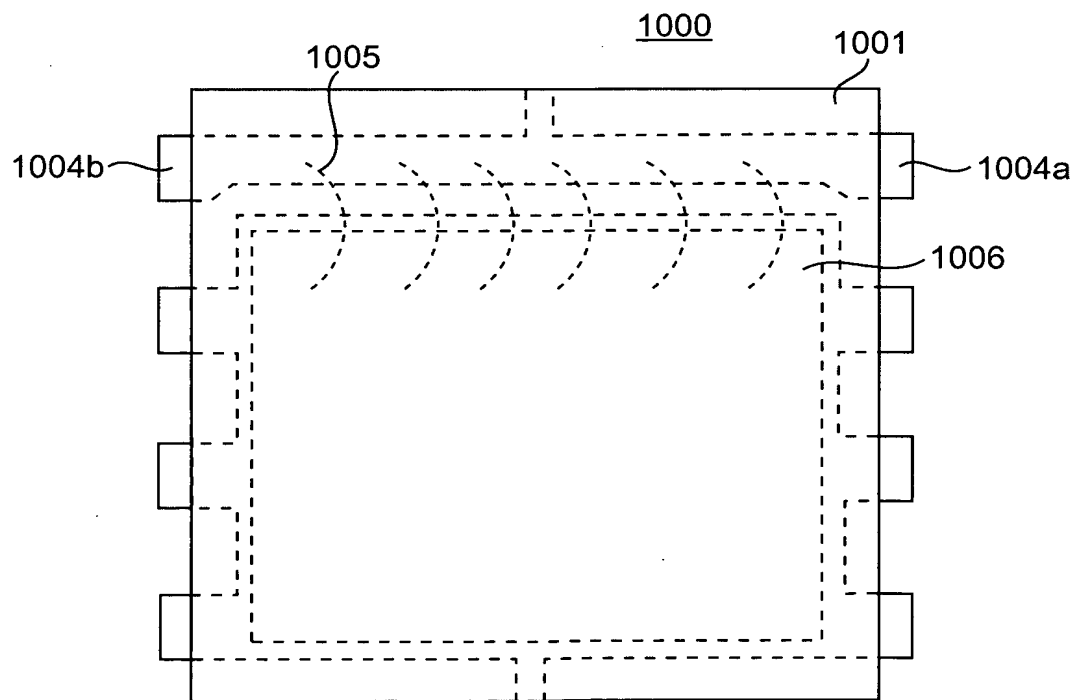


FIG. 10



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 29 of 45

29 / 45

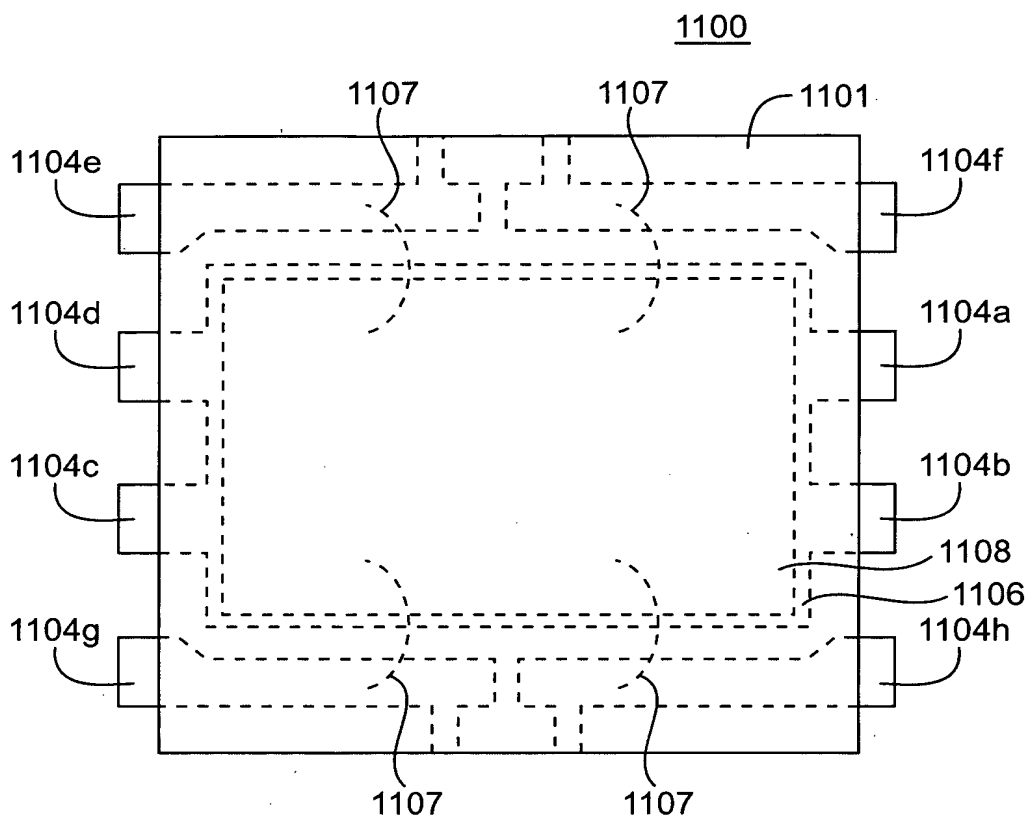


FIG. 11



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 30 of 45

30 / 45

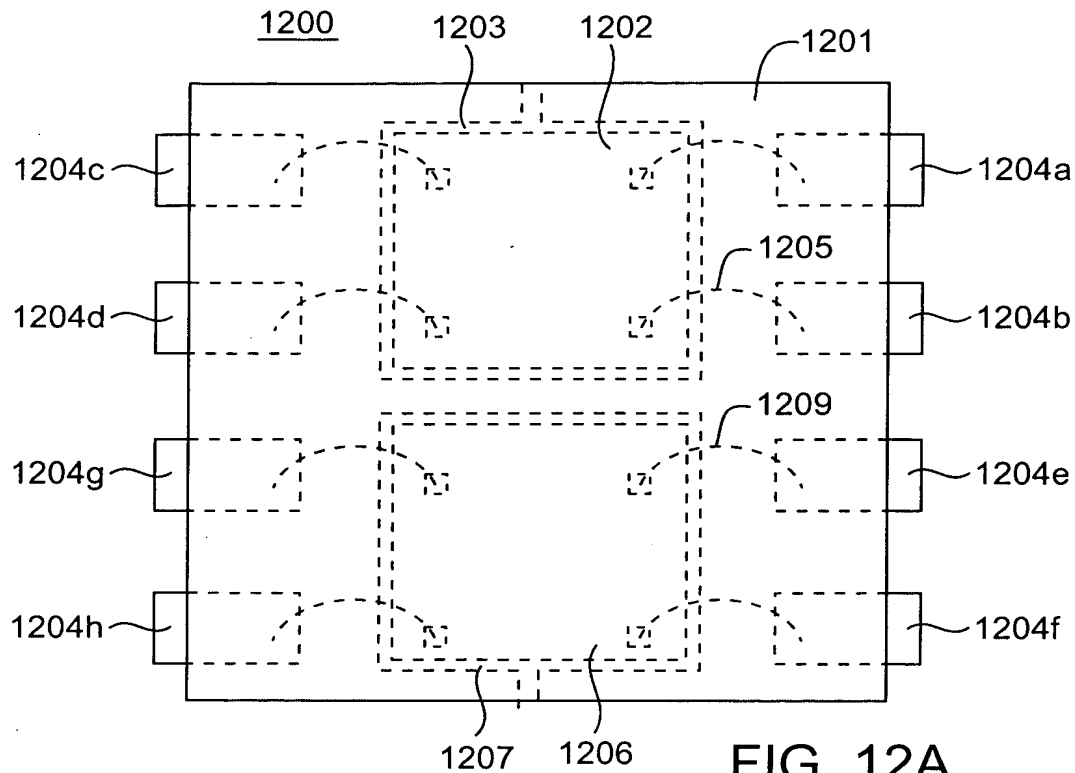


FIG. 12A

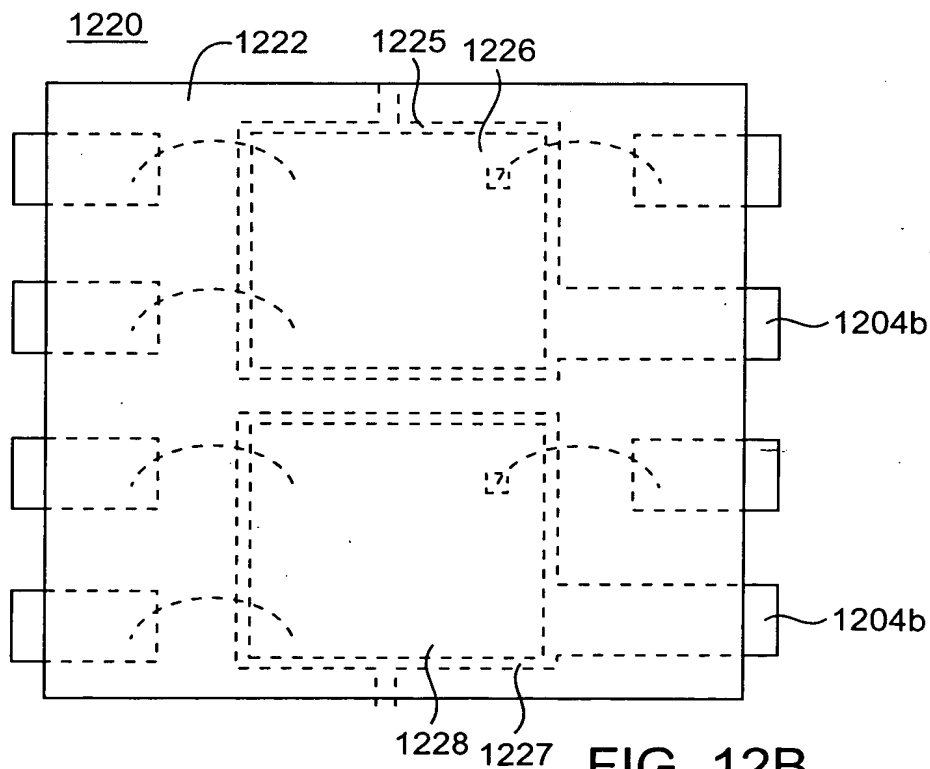


FIG. 12B

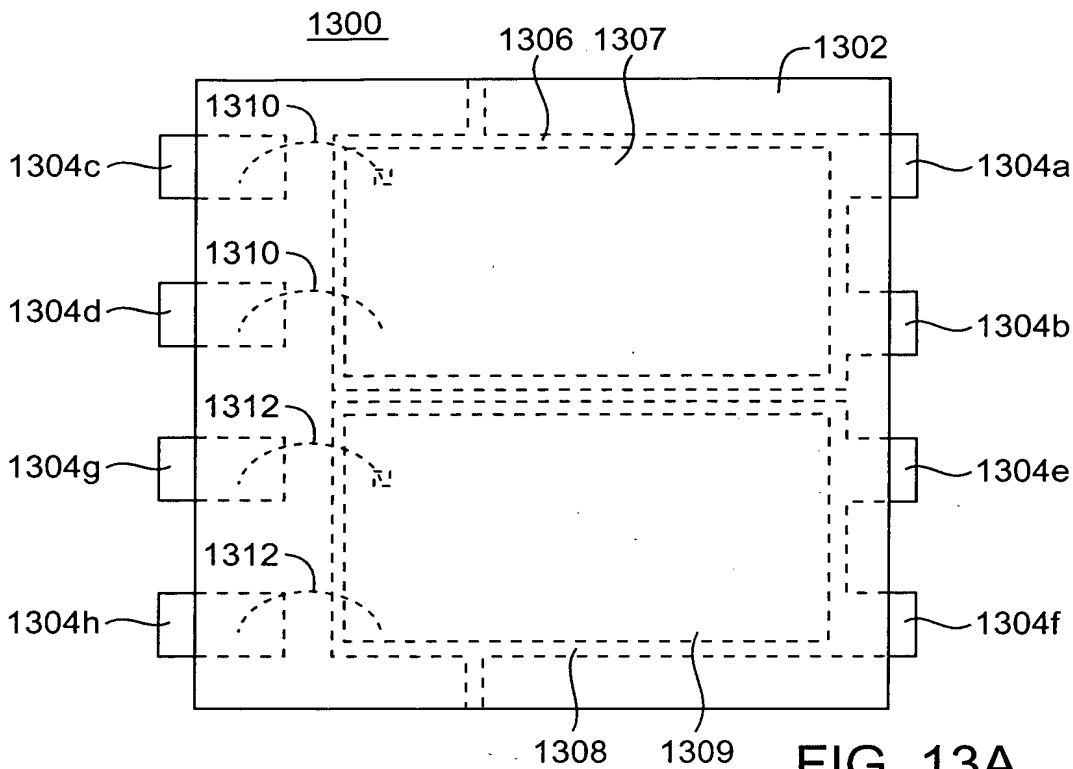


FIG. 13A

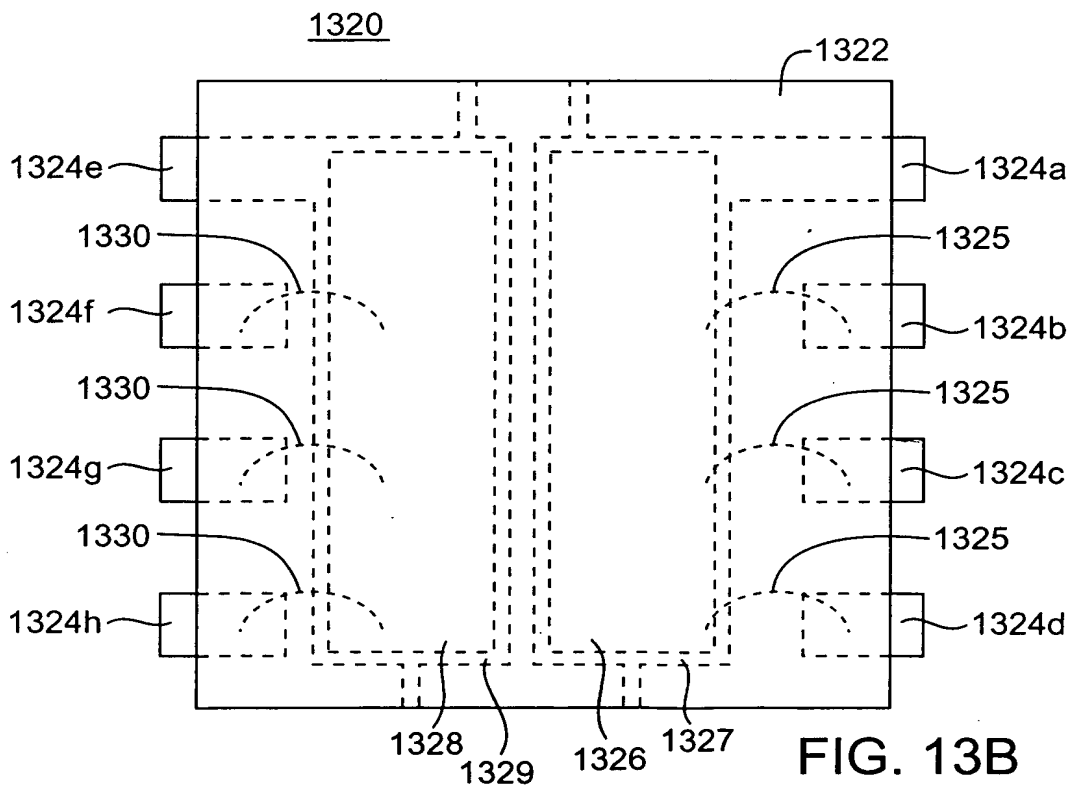
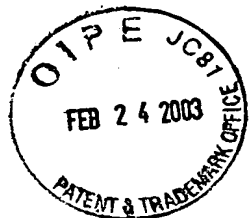


FIG. 13B



+

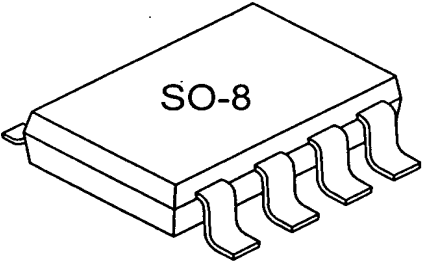
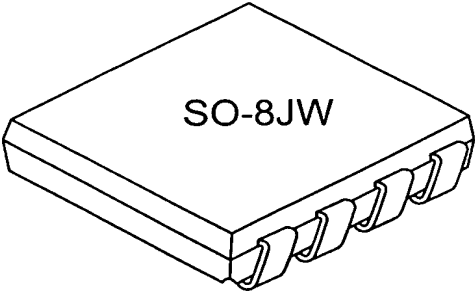
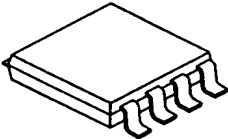
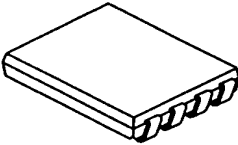


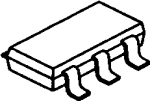

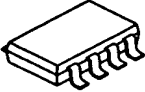







Package		LXW(mm)		(JW = J-lead/Wide Body)
SO-8		4 .83X6 .00		SO-8JW
MSOP-8		3 .05X4 .9		MSOP-8JW
SC-59		3 .05X2 .85		SC-59JW
TSOP-6		3 .05X2 .85		TSOP-6JW
TSOP-8		3 .05X2 .85		TSOP-8JW
SOT-23		3.0X2.5		SOT-23JW
SC-70		2 .0X2 .1		SC-70JW
SC-70-8		2 .0X2 .1		SC70-8JW

FIG. 14

+





Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 33 of 45

33 / 45

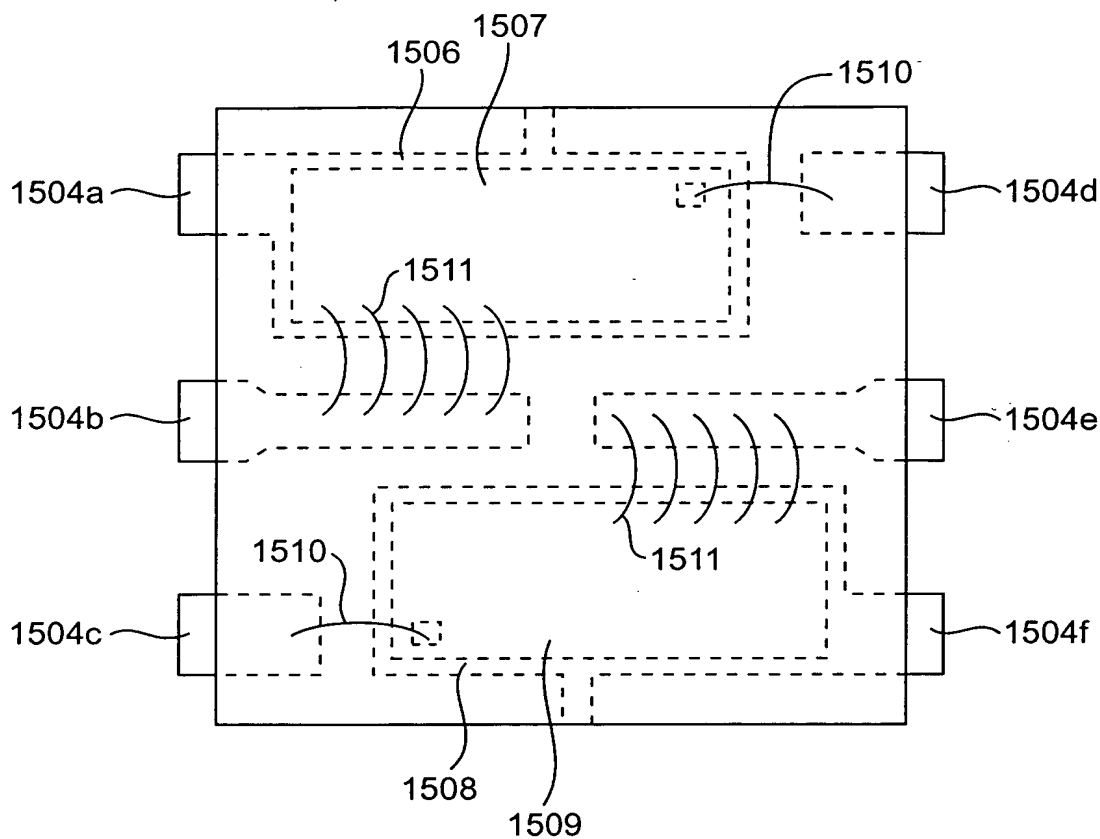


FIG. 15



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 34 of 45

34 / 45

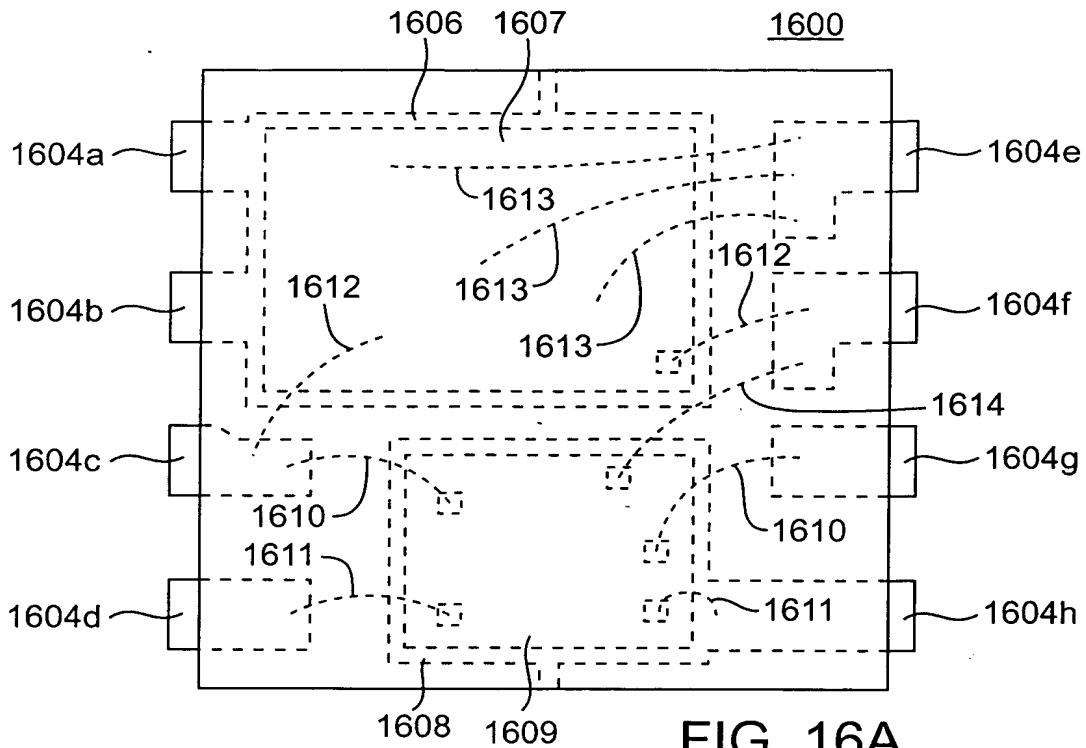


FIG. 16A

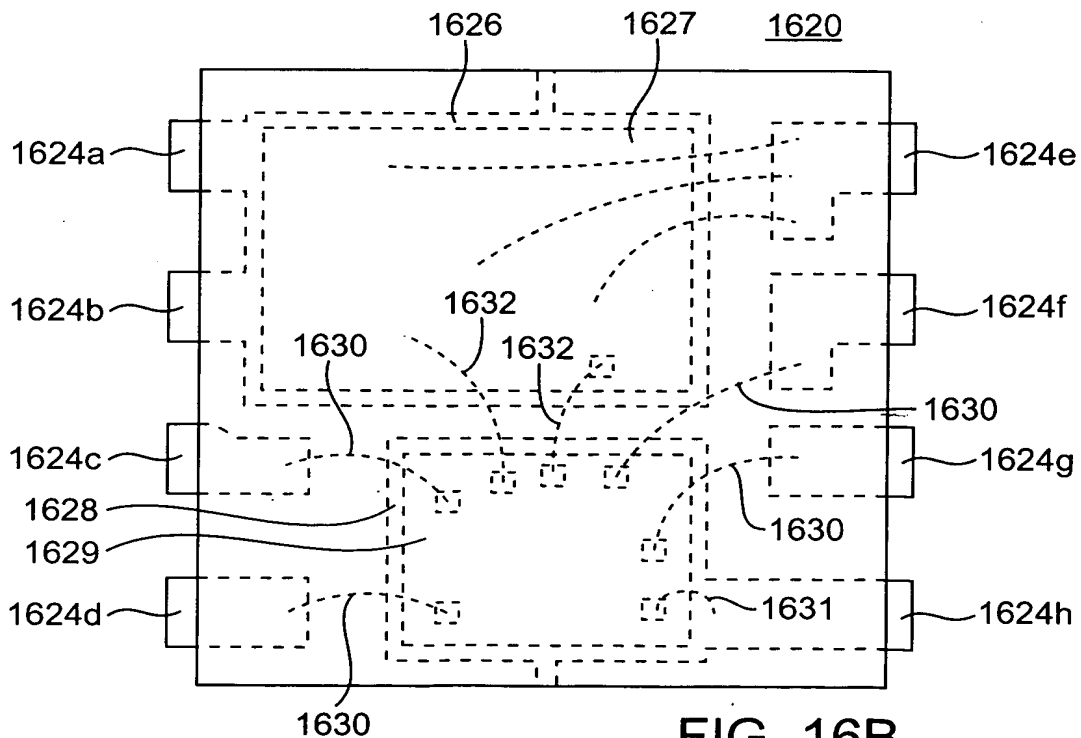
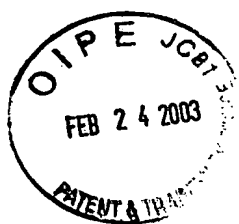


FIG. 16B



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 35 of 45

35 / 45

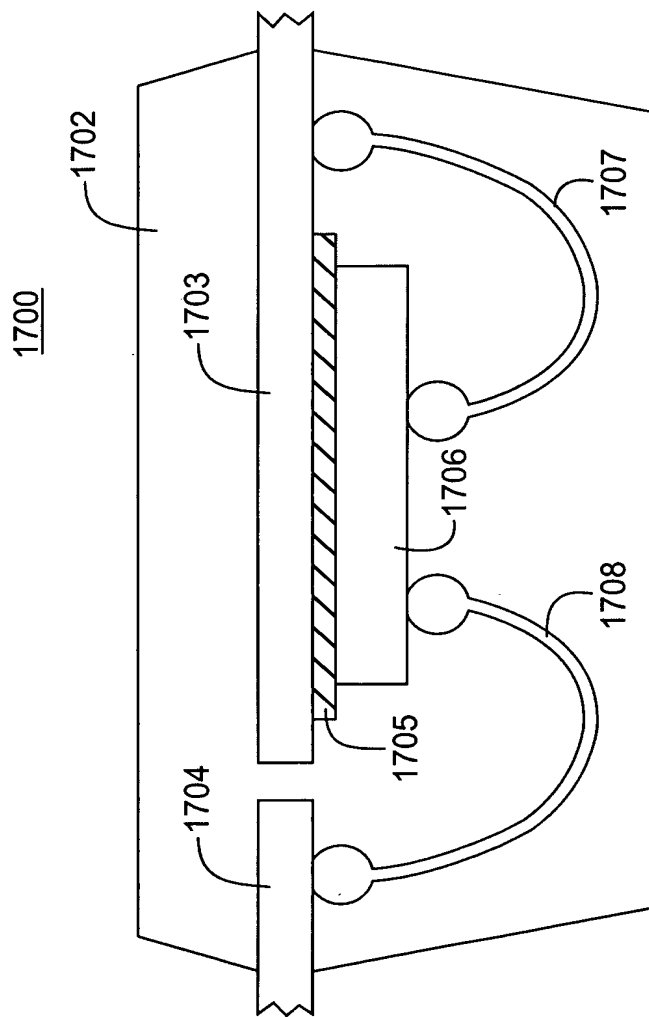


FIG. 17



Title: Improved Surface Mount  
Package: James Harnden et al.  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 36 of 45

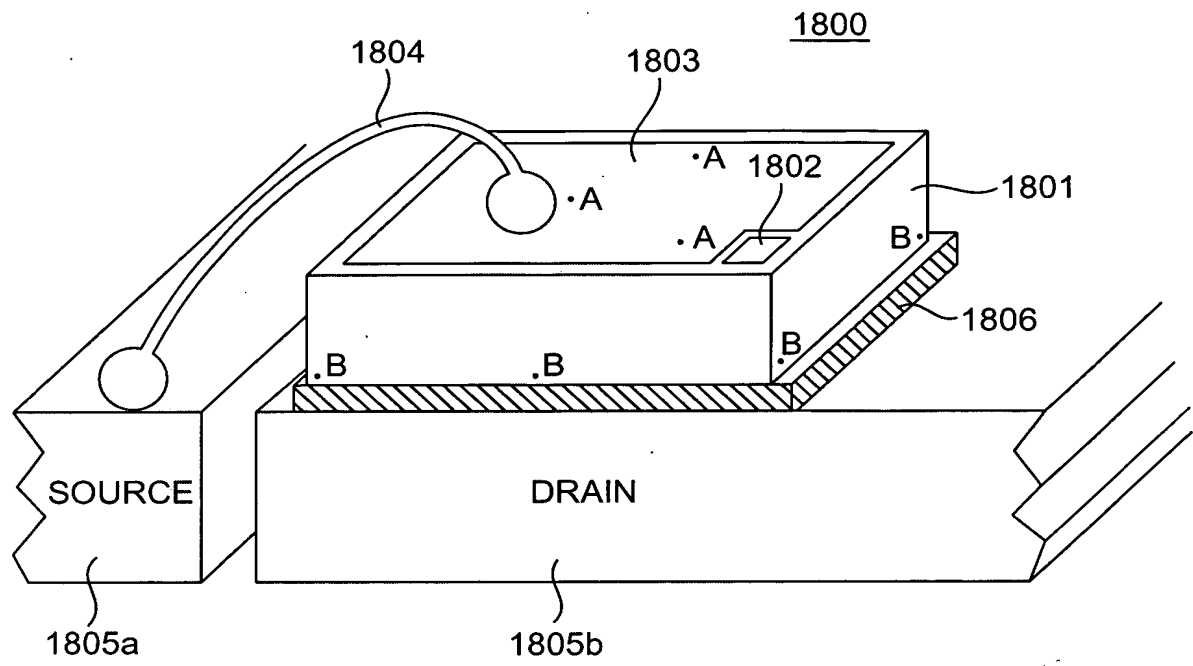


FIG. 18A

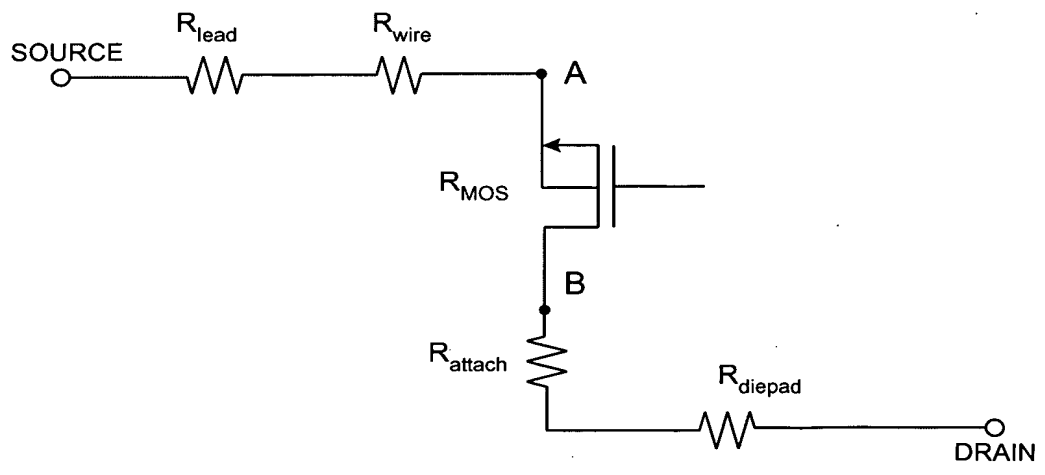


FIG. 18B



**Title:** Improved Surface Mount  
**Package**  
**Inventors:** James Harnden et al.  
**Application No.:** 09/895,478  
**Attorney Docket:** 020964-000210US  
**Filing Date:** June 29, 2001  
**Drawing:** Sheet 37 of 45

37 / 45

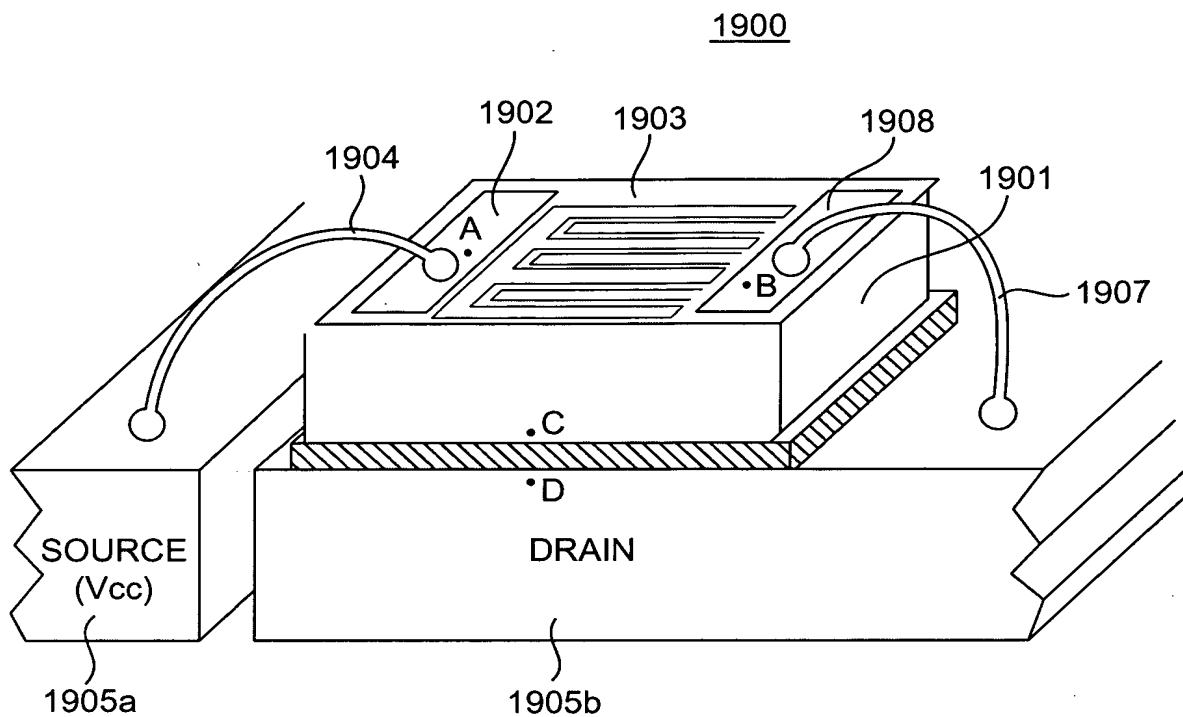


FIG. 19A

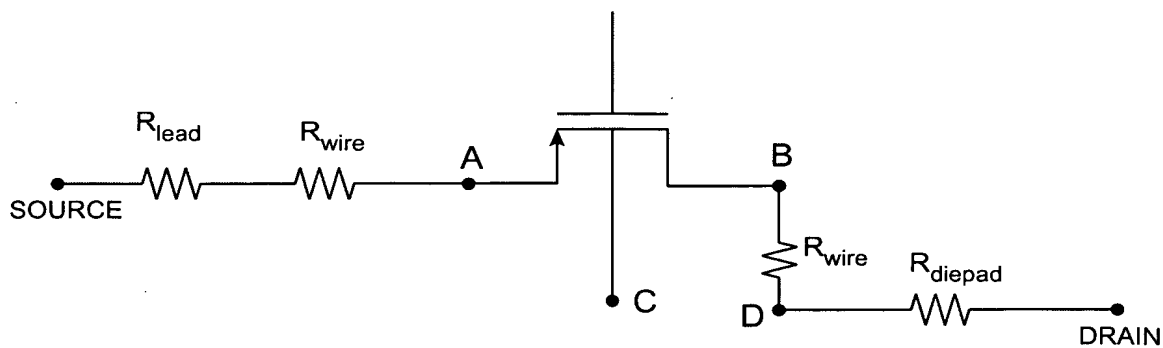


FIG. 19B



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 28 of 45

38 / 45

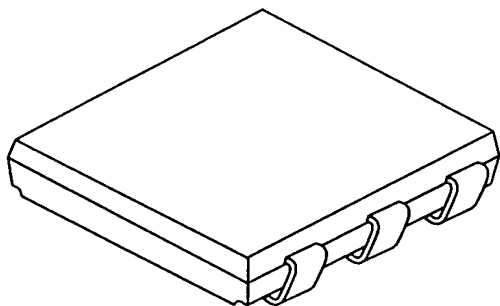


FIG. 20A

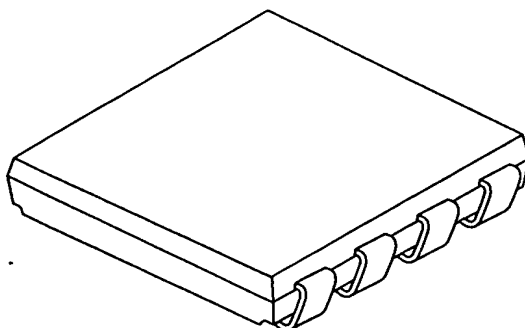


FIG. 20B

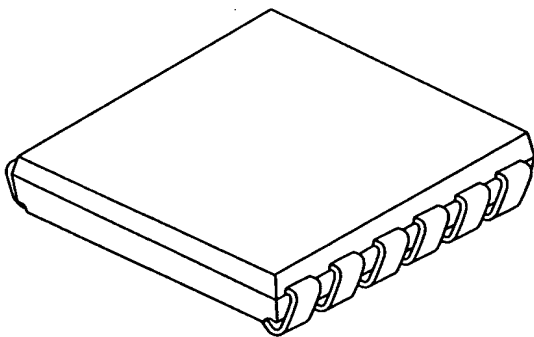


FIG. 20C

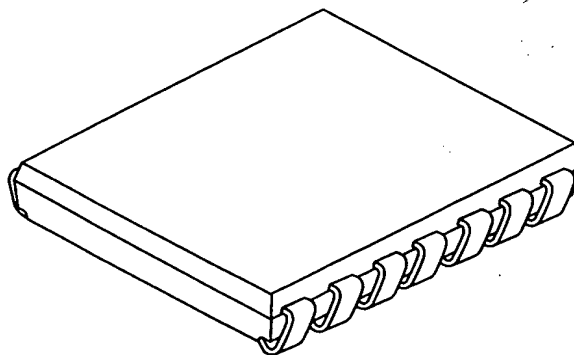


FIG. 20D



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 39 of 45

39 / 45

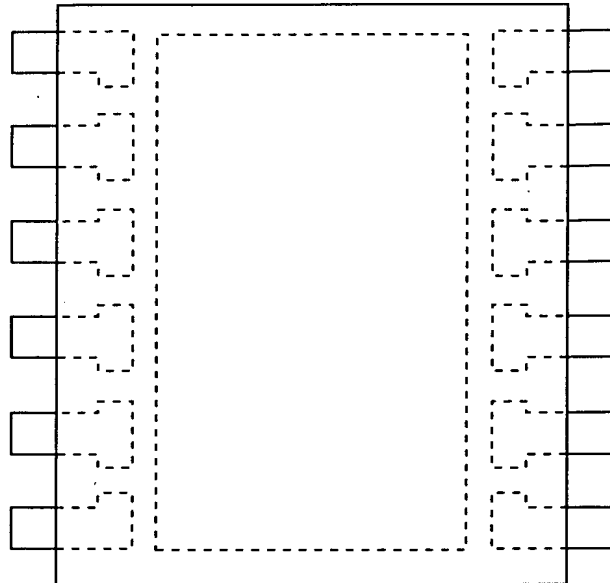


FIG. 20E

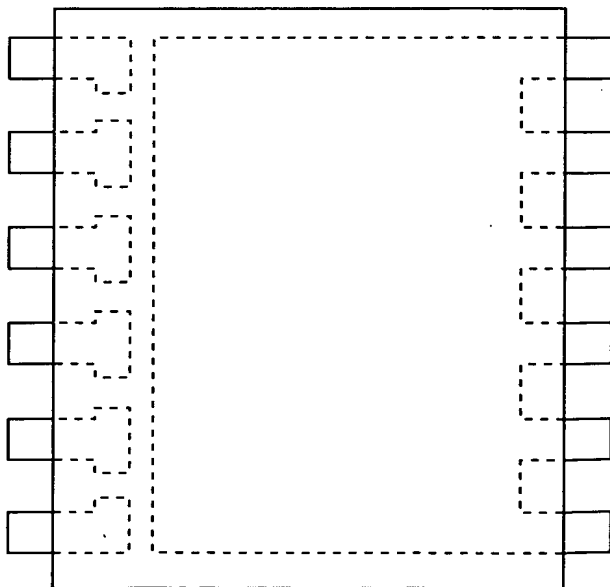


FIG. 20F



Title:	Improved Surface Mount
Package	
Inventors:	James Harnden et al.
Application No.:	09/895,478
Attorney Docket:	020964-000210US
Filing Date:	June 29, 2001
Drawing:	Sheet 40 of 45

40 / 45

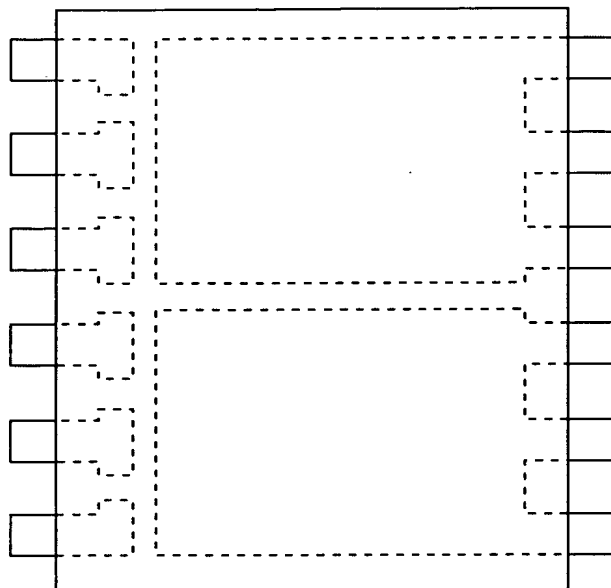


FIG. 20G

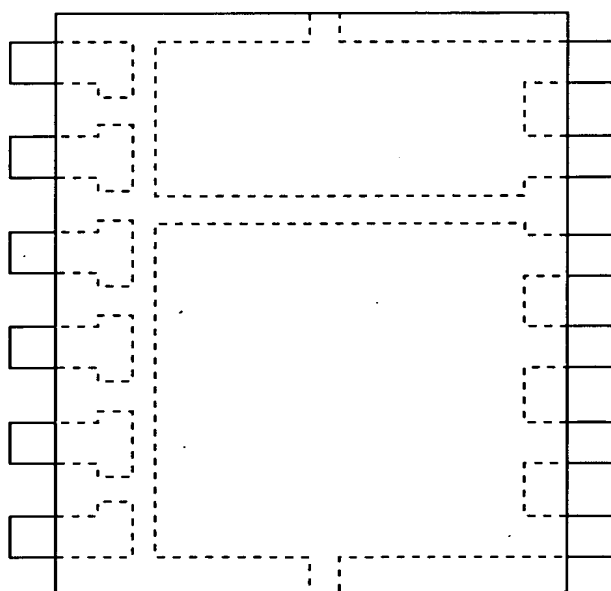
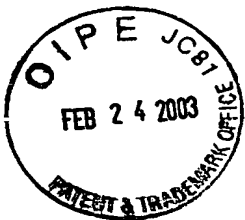


FIG. 20H





Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 41 of 45

41 / 45

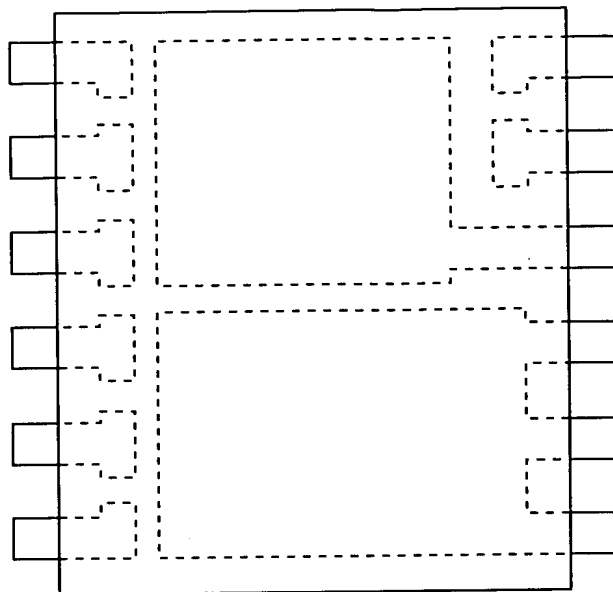


FIG. 20I

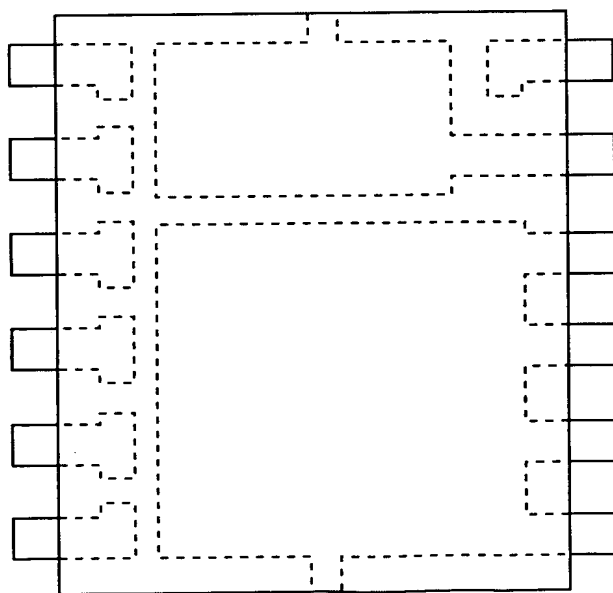
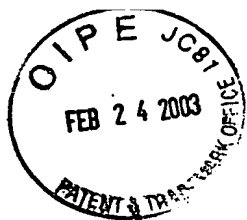


FIG. 20J



Title: Improved Surface Mount  
Package: -  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 42 of 45

42 / 45

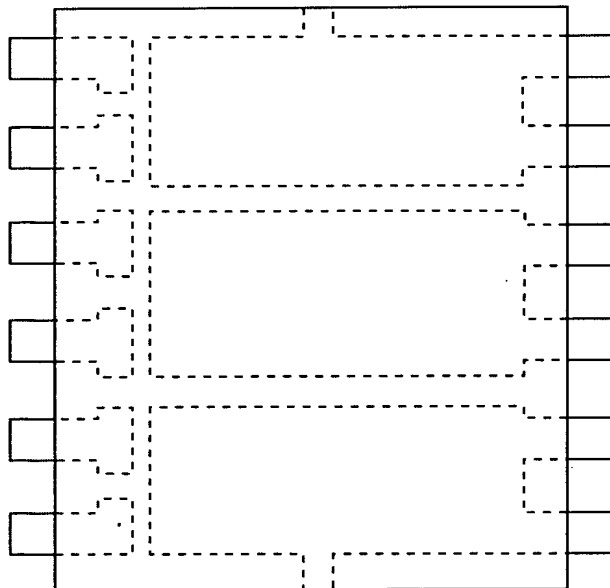


FIG. 20K

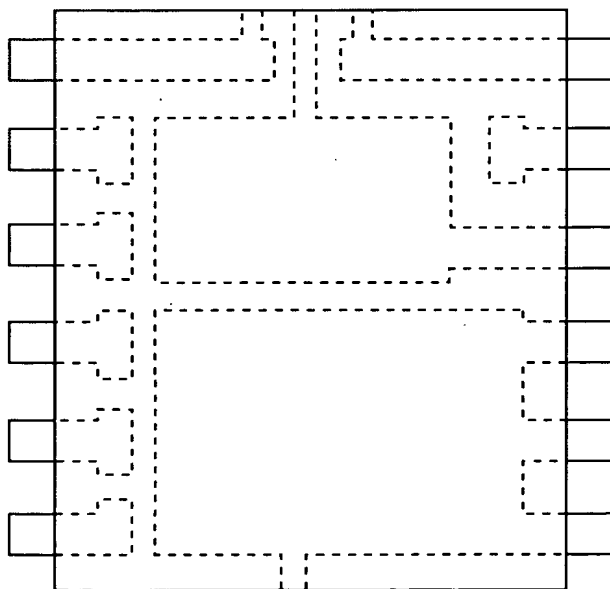


FIG. 20L



Title: Improved Surface Mount  
Package: -  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 43 of 45

43 / 45

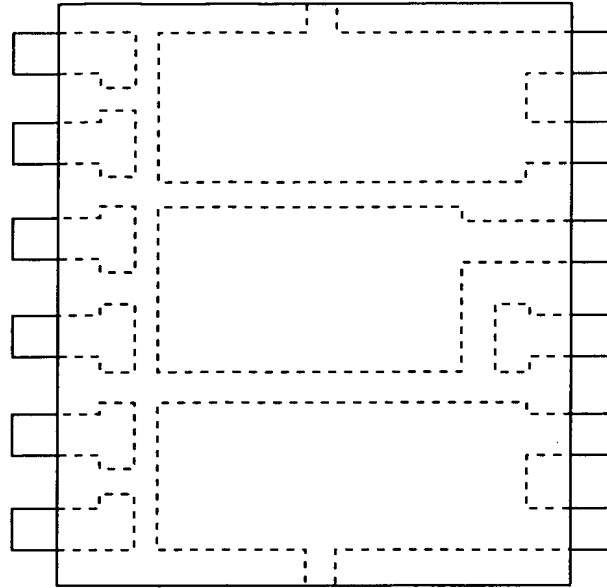


FIG. 20M

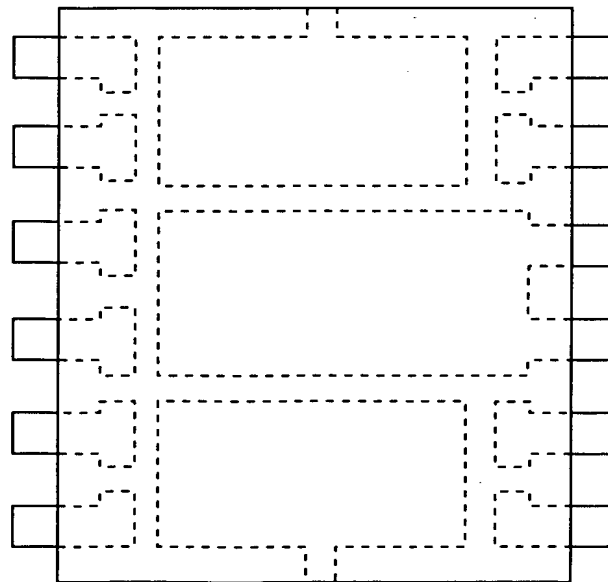


FIG. 20N



Title: Improved Surface Mount  
Package  
Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 44 of 45

44 / 45

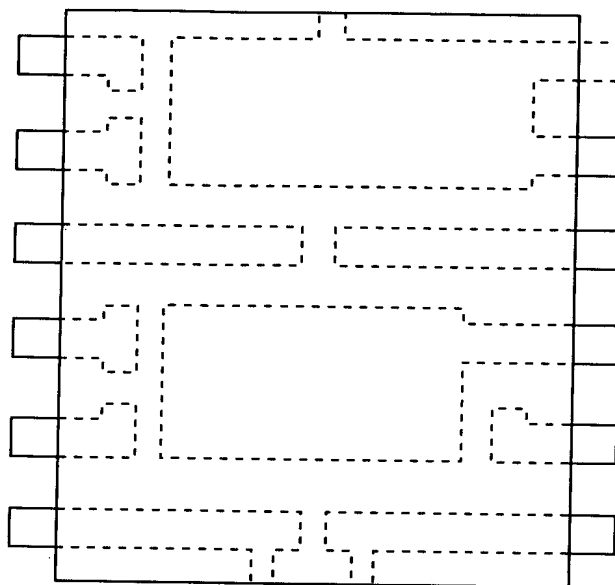


FIG. 200



Title: Improved Surface Mount  
Package Inventors: James Harnden et al.  
Application No.: 09/895,478  
Attorney Docket: 020964-000210US  
Filing Date: June 29, 2001  
Drawing: Sheet 45 of 45

45 / 45

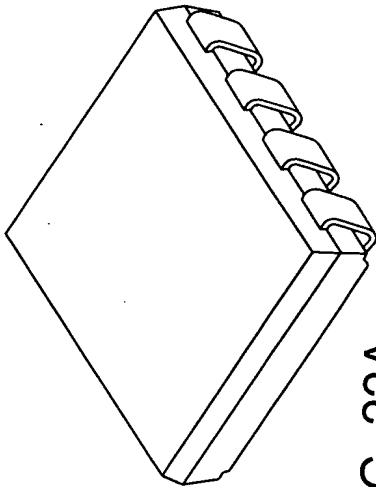


FIG. 22A

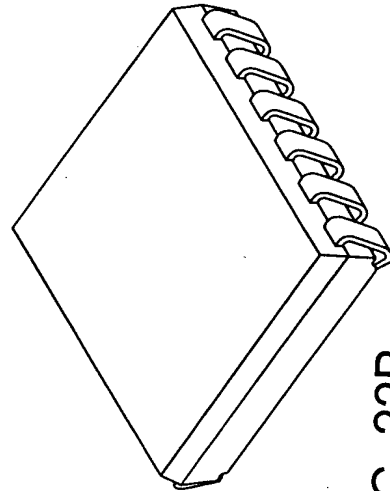


FIG. 22B

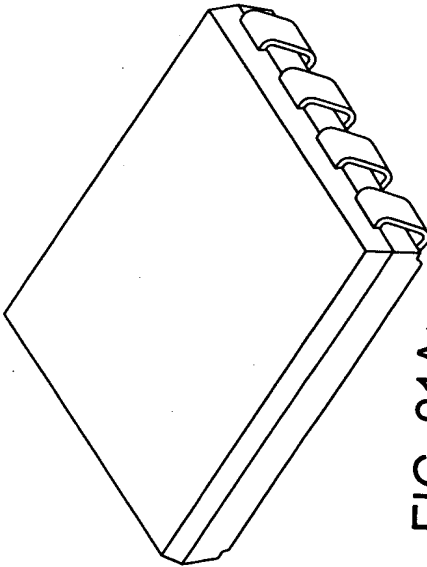


FIG. 21A

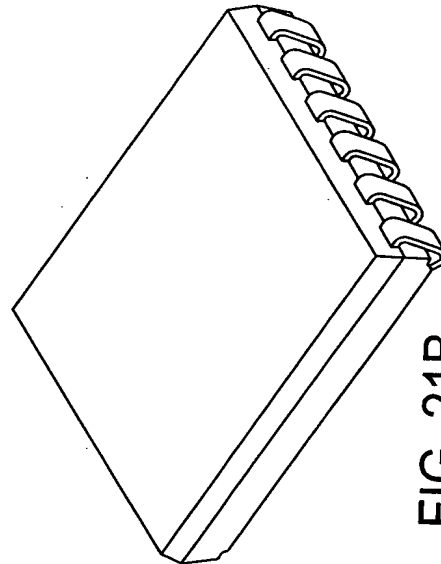


FIG. 21B